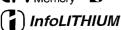
DSR-PD100/PD100P

SERVICE MANUAL



DVCAM







MEMORY STICK

C MECHANISM



US Model Canadian Model DSR-PD100

AEP Model DSR-PD100P

Photo: DSR-PD100

NTSC model: DSR-PD100 PAL model: DSR-PD100P

Digital Camcorder

System

Video recording system Two rotary heads, Helical scanning

Audio recording system Rotary heads, PCM system Quantization: Fs 32kHz (12bits, stereo 1, stereo 2), Fs 48kHz (16bits,

Video signal DSR-PD100: NTSC color, EIA standards DSR-PD100P: PAL color, CCIR standards

Usable cassette Mini DVCAM cassette with logo printed
Tape speed

DSR-PD100: Approx. 28.218 mm/s DSR-PD100P: Approx. 28.246 mm/s Recording/playback time 40 minutes (PDVM-40ME) Fast forward/rewind time Approx. 2 min. 30 s (PDVM-40ME) Image device

3CCD (Charge Coupled Device 1/4")

Viewfinder Electric viewfinder (color)

Combined power zoom lens, 48x (Digital), 12x (Optical)

Focal distance

 $f = 4.3 \text{ to } 51.6 \text{ mm} (^3/_{16} \text{ to } 2^{1}/_{8} \text{ in.})$ (41.3 to 496 mm (1 $^{11}/_{16}$ to 19 $^{5}/_{8}$ in.) when converted into a 35 mm still camera)

F 1.6 - 2.8

TTL autofocus system inner focus wide macro system

Color temperature

Auto, ♣One push, ♣Indoor (3200K), ☀Outdoor (5800K) Minimum illumination 4 lux at F 1.6 Illumination range

4 to 100,000 lux Recommended illumination More than 100 lux

LCD screen

Picture

3.5 inches measured diagonally $72.4 \times 50.4 \text{ mm} (2^{7}/8 \times 2 \text{ in.})$ On-screen display TN LCD/TFT active matrix method Total dot number 184,580 (839 x 220)

Input and output connectors

S VIDEO input/output Input/output auto switch 4-pin mini DIN Luminance signal: 1 Vp-p, 75 ohms, unbalanced, sync negative Chrominance signal: 0.286 Vp-p (DSR-PD100), 0.3 Vp-p (DSR-PD100P), 75 ohms, unbalanced

SPECIFICATIONS

Audio/Video input/output Input/output auto switch AV MINI JACK, 1 Vp-p, 75 ohms, unbalanced, sync negative 327 mV, (at output impedance more than 47 kilohms) Output impedance with less than 2.2 kilohms/Stereo minijack (ø 3.5mm) Input impedance more than 47 kilohms DV input/output

4-pin special connector Headphones Stereo minijack (ø 3.5 mm) MIC input Stereo minijack (ø 3.5mm):0.388mV,

DC2.5V Input impedance 6.8 kilohms **C**LANC jack

Stereo miniminijack (ø 2.5 mm)

General

Power requirements 7.2 V (battery insertion input) 8.4 V (DC IN jack) Average power consumption 4.3 W during camera recording using viewfinder
5.3 W during camera recording using LCD screen Operating temperature 0°C to 40°C (32°F to 104°F) Storage temperature -20°C to 60°C (-4°F to 140°F) **Dimensions** Approx. $93 \times 112 \times 193.5 \text{ mm (w/h/d)}$ (3 $^{3}/_{4} \times 4^{1}/_{2} \times 7^{5}/_{8} \text{ in.)}$

Approx. 900 g (1 lb 16 oz) excluding the battery pack and the cassette. Approx. 985 g (2 lb 3 oz) including the XLR adaptor Approx. 1.28 kg (2 lb 13 oz) including the XLR adaptor, wide conversion lens and wide conversion lens hood.

Microphone Electret condenser microphone, Stereo type Speaker

Dynamic-speaker
Supplied accessories See page 2.

AC power adaptor

Power requirements 100 to 240 V AC, 50/60 Hz Power consumption **Output voltage** DC OUT: 8.4 V, 1.5 A in operating mode Operating temperature 0°C to 40°C (32°F to 104°F) Storage temperature

-20°C to 60°C (-4°F to 140°F) Dimensions (Approx.) $125 \times 39 \times 62 \text{ mm} (w/h/d) (5 \times 19/16 \times 10)$ $2^{1/2}$ in.) Mass (Approx.)

280 g (9.8 oz) excluding power code

Continued on next page







PC card adaptor

Host interface PC card ATA/True IDE standards Operating voltage 3.3 V/5V Operating environment 0°C to 60°C (32°F to 140°F) (noncondensing) Dimensions (Approx.) 85 x 54 x 5 mm (w/h/d) (3 3/8 x 2 1/4 x 7/32 in.) Mass (Approx.) 30 g (1 oz)

Memory stick

Memory type Flash memory Voltage 2.7 to 3.6 V Power consumption About 4.5 mA About 130 mA at stndby Clock Maximum 20 MHz Operating environment 0°C to 60°C (32°F to 140°F) (noncondensing) Dimensions (Approx.) $21.5 \times 50 \times 2.8 \text{ mm} (\text{w/h/d}) (^{7}/\text{s} \times 2 \times$ 1/8 in.) Mass (Approx.) 4 g (0.2 oz)

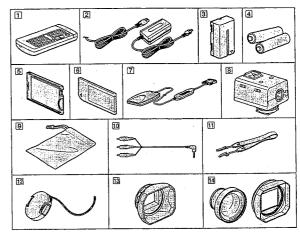
Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

• SUPPLIED ACCESSORIES

Check that the following accessories are supplied with your camcorder.



- 1 Wireless Remote Commander (1)
- (2) AC-L10A AC power adaptor (1), Power cord (mains lead) (1) The shape of the plug varies from region to region.
- 3 NP-F330 battery pack (1)
- 4 Size AA (R6) battery for Remote Commander (2)
- 5 PC card adaptor (1), PC card adaptor case (1)
- 6 Memory stick (1), memory stick case (1), label (1)
- PC card/parallel port adaptor (1), Power cord (1), Adaptor connector (1), CD-ROM (1)

- 8 XLR adaptor (1)
- Pouch for XLR adaptor (1)
 When not using the XLR adaptor, put the adaptor into the pouch.
- 10 A/V connecting cable (1)
- 11 Shoulder strap (1)
- 12 Lens cap (1)
- 13 Lens hood (1)
- 14 Wide conversion lens (1), wide conversion lens hood (1)

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- 4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- 5. Check the B+ voltage to see it is at the values specified.
- 6. Flexible Circuit Board Repairing
 - Keep the temperature of the soldering iron around 270°C during repairing.
 - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
 - Be careful not to apply force on the conductor when soldering or unsoldering.

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SERVICE NOTE

1. POWER SUPPLY DURING REPAIRS

In this unit, about 10 seconds after power is supplied (8.4V) to the battery terminal using the service power cord (J-6082-223-A), the power is shut off so that the unit cannot operate.

This following two methods are available to prevent this. Take note of which to use during repairs.

Method 1.

Connect the servicing remote commander RM-95 (J-6082-053-B) to the LANC jack, and set the remote commander switch to the "ADJ" side.

Method 2.

Press the battery switch of the battery terminal using adhesive tape, etc.

Method 3.

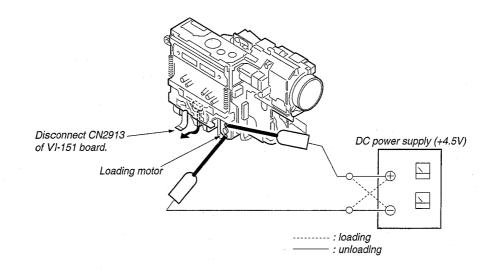
Use the AC power adaptor.

2. HOW TO TAKE A CASSETTE OUT WHEN THE MAIN POWER CANNOT BE TURNED ON

Note: To take a cassette out forcibly as follows when the main power cannot be turned on, remove the cassette lid, cabinet (L) and cabinet (R). Apply +4.5 V power from an external power supply to the loading motor, as shown below. Refer to sections 2-1 and 2-2 for the procedure to remove the cabinet (L) assembly.

Procedure:

- 1) Disconnect the CN2913 of VI-151 board.
- 2) Apply +4.5 V directly to the loading motor as shown to drive the loading motor that ejects a cassette.



SELF-DIAGNOSIS FUNCTION

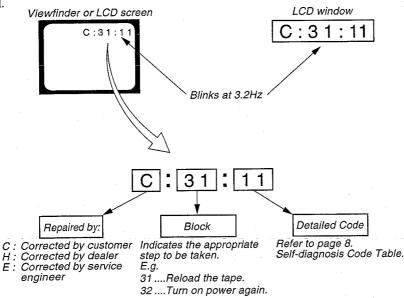
1. SELF-DIAGNOSIS FUNCTION

When problems occur while the unit is operating, the self-diagnosis function starts working, and displays on the viewfinder, LCD screen or LCD window what to do. This function consists of two display; self-diagnosis display and service mode display.

Details of the self-diagnosis functions are provided in the Instruction manual.

2. SELF-DIAGNOSIS DISPLAY

When problems occur while the unit is operating, the counter of the viewfinder, LCD screen or LCD window consists of an alphabet and 4-digit numbers, which blinks at 3.2 Hz. This 5-character display indicates the "repaired by:", "block" in which the problem occurred, and "detailed code" of the problem.

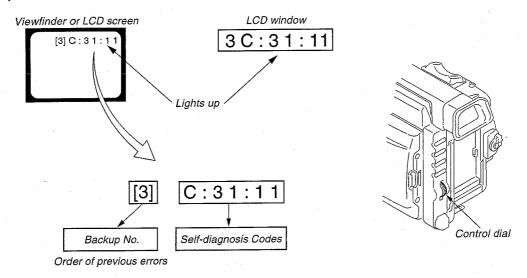


3. SERVICE MODE DISPLAY

The service mode display shows up to six self-diagnosis codes shown in the past.

3-1. Display Method

While pressing the "STOP" key, set the switch from OFF to "VTR or PLAYER", and continue pressing the "STOP" key for 5 seconds continuously. The service mode will be displayed, and the counter will show the backup No. and the 5-character self-diagnosis codes.



3-2. Switching of Backup No.

By rotating the control dial, past self-diagnosis codes will be shown in order. The backup No. in the [] indicates the order in which the problem occurred. (If the number of problems which occurred is less than 6, only the number of problems which occurred will be shown.)

- [1]: Occurred first time
- [4]: Occurred fourth time
- [2]: Occurred second time
- [5]: Occurred fifth time
- [3]: Occurred third time
- [6]: Occurred the last time

3-3. End of Display

Turning OFF the power supply will end the service mode display.

Note: The "self-diagnosis display" data will be backed up by the coin-type lithium battery of CK-80 board BT7200. When this coin-type lithium battery is removed, the "self-diagnosis display" data will be lost by initialization.

4. SELF-DIAGNOSIS CODE TABLE

| Se | Self-diagnosis Code | | de | | | |
|--------------|---------------------------------|---|------|---------------|--|--|
| Repaired by: | Block Detailed Function Code | | iled | Symptom/State | Correction | |
| С | 2 | 1 | 0 | 0 | Condensation. | Remove the cassette, and insert it again after one hour. |
| С | 2 | 2 | 0 | 0 | Video head is dirty. | Clean with the optional cleaning cassette. |
| C | 2 | 3 | 0 | 0 | Non-standard battery is used. | Use the info LITHIUM battery. |
| С | 3 | 1 | 1 | 0 | LOAD direction. Loading does not complete within specified time | Load the tape again, and perform operations from the beginning. |
| С | 3 | 1 | 1 | 1 | UNLOAD direction. Loading does not complete within specified time | Load the tape again, and perform operations from the beginning. |
| С | 3 | 1 | 2 | 0 | T reel side tape slacking when unloading. | Load the tape again, and perform operations from the beginning. |
| C | 3 | 1 | 2 · | 1 | Winding S reel fault when counting the rest of tape. | Load the tape again, and perform operations from the beginning. |
| C | 3 | 1 | 2 | 2 | T reel fault. | Load the tape again, and perform operations from the beginning. |
| C | 3 | 1 | 2 | 3 | S reel fault. | Load the tape again, and perform operations from the beginning. |
| C | 3 | 1 | 2 | 4 | T reel fault. | Load the tape again, and perform operations from the beginning. |
| С | 3 | 1 | 3 | 0 | FG fault when starting capstan. | Load the tape again, and perform operations from the beginning. |
| .C. | . 3 | 1 | 4 | 0 | FG fault when starting drum. | Load the tape again, and perform operations from the beginning. |
| C | 3 | 1 | 4 | 2 | FG fault during normal drum operations. | Load the tape again, and perform operations from the beginning. |
| С | 3 | 1 | 1 | 0 | LOAD direction loading motor time- out. | Remove the battery or power cable, connect, and perform operations from the beginning. |
| С | 3 | 1 | 1 | 1 | UNLOAD direction loading motor time-out. | Remove the battery or power cable, connect, and perform operations from the beginning. |
| С | 3 | 2 | 2 | 0 | T reel side tape slacking when unloading. | Remove the battery or power cable, connect, and perform operations from the beginning. |
| С | 3 | 2 | 2 | 1 | Winding S reel fault when counting the rest of tape. | Remove the battery or power cable, connect, and perform operations from the beginning. |
| C | 3 | 2 | 2 | 2 | T reel fault. | Remove the battery or power cable, connect, and perform operations from the beginning. |
| С | 3 | 2 | 2 | 3 | S reel fault. | Remove the battery or power cable, connect, and perform operations from the beginning. |
| С | 3 | 2 | 2 | 4 | T reel fault. | Remove the battery or power cable, connect, and perform operations from the beginning. |
| С | 3 | 2 | 3 | 0 | FG fault when starting capstan. | Remove the battery or power cable, connect, and perform operations from the beginning. |
| С | 3 | 2 | 4 | 0 | FG fault when starting drum | Remove the battery or power cable, connect, and perform operations from the beginning. |
| С | 3 | 2 | 4 | 2 | FG fault during normal drum operations | Remove the battery or power cable, connect, and perform operations from the beginning. |
| Е | 6 | 1 | 0 | 0 | Difficult to adjust focus (Cannot initialize focus.) | Inspect the lens block focus reset sensor (Pin ® of CN500 of VC-208 board) when focusing is performed when the control dial is rotated in the focus manual mode, and the focus motor drive circuit (IC500 of VC-208 board) when the focusing is not performed. |
| Е | 6 | 1 | 1 | 0 | Zoom operations fault (Cannot initialize zoom lens.) | Inspect the lens block zoom reset sensor (Pin ② of CN500 of VC-208 board) when zooming is performed when the zoom lens is operated and the zoom motor drive circuit (IC500 of VC-208 board) when zooming is not performed. |
| Е | 6 | 2 | 0 | 0 | Steadyshot function does not work well. (With pitch angular velocity sensor output stopped.) | Inspect pitch angular velocity sensor (SE451 of SE-75 board) peripheral circuits. |
| Е | 6 | 2 | 0 | 1 | Steadyshot function does not work well. (With yaw angular velocity sensor output stopped.) | Inspect yaw angular velocity sensor (SE450 of SE-75 board) peripheral circuits. |

SECTION 1 GENERAL

begin

DSR-PD100/PD100P

This section is extracted from instruction manual.

Before you begin Using this manual

The instructions in this manual are for the two models listed below. Before you start reading this manual and operating the unit, check your model number by looking at the bottom of your camcorder. The DSR-PD100 is the model used for illustration purposes. Otherwise, the model name is indicated in the illustrations. Any differences in operation are clearly indicated in the text, for example, "DSR-PD100 only."

As you read through this manual, buttons and settings on the camcorder are shown in capital letters.
e.g., Set the POWER switch to CAMERA.

Types of differences

| Model number | Color system | Drop frame system |
|--------------|--------------|------------------------------|
| DSR-PD100 | NTSC | Drop frame or non-drop frame |
| DSR-PD100P | PAL | _ |

(Note on Cassette Memory

This camcorder is based on the DVCAM format. You can only use mini DVCAM cassettes with this camcorder. We recommend you to use a tape with cassette memory (III.

The functions which depend on whether the tape has the cassette memory or not are:

• End Search (p. 22, 25)
• Date Search (p. 73)
• Photo Search (p. 76).
The functions you can operate only with the cassette memory are:
• Title Search (p. 76)
• Superimposing a title (p. 63)
• Making a custom title (p. 65)
• Labeling a cassette (p. 68).
For details, see page 116.

For details, see page 116.

Note on TV color systems

TV color systems differ from country to country.

To view your recordings on a TV, you need an NTSC system-based TV (DSR-PD100).

To view your recordings on a TV, you need a PAL system-based TV (DSR-PD100P).

Precaution on copyright

Television programs, films, video tapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to the provision of the copyright laws.

Contents of the recording cannot be compensated if recording or playback is not made due to a malfunction of the camcorder, video tape, etc.

Precautions on camcorder care

- The LCD screen and/or the color viewfinder are manufactured using high-precision technology. However, there may be some tiny black points and/or bright points (red, blue or green in color) that constantly appear on the LCD screen and/or in the viewfinder. These points are normal in the manufacturing process and do not affect the recorded picture in any way. Over 99.99% are operational for effective use.

 Do not let the camcorder get wet. Keep the camcorder away from rain and sea water. Letting the camcorder get wet may cause the unit to malfunction, and sometimes this malfunction cannot be repaired [a].

 Never leave the camcorder exposed to tenperatures above 60°C (140°F), such as in a car parked in the sun or under direct sunlight [b].



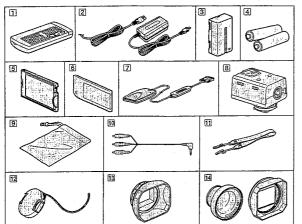


6

5

Checking supplied accessories

Check that the following accessories are supplied with your camcorder.



8 XLR adaptor (1) (p. 61)

9 Pouch for XLR adaptor (1)

11 Shoulder strap (1) (p. 141)

12 Lens cap (1) (p. 13)

13 Lens hood (1) (p. 15)

When not using the XLR adaptor, put the adaptor into the pouch. (1) A/V connecting cable (1) (p. 70, 80)

[14] Wide conversion lens (1), wide conversion lens hood (1) (p. 62)

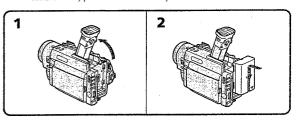
- 1 Wireless Remote Commander (1) (p. 140)
- [2] AC-L10A AC power adaptor (1), Power cord (mains lead) (1) (p. 9, 27) The shape of the plug varies from region to
- 3 NP-F330 battery pack (1) (p. 8)
- [4] Size AA (R6) battery for Remote Commander (2) (p. 140)
- 5 PC card adaptor (1), PC card adaptor case (1)
- 6 Memory stick (1), memory stick case (1), label (1) (p. 90)
- PC card/parallel port adaptor (1), Power cord (1), Adaptor connector (1), CD-ROM (1) (p. 91)

Getting started Installing and charging the battery pack

Before using your camcorder, you first need to install and charge the battery pack. To charge the battery pack, use the supplied AC power adaptor. This camcorder operates only with the "InfoITHIUM" battery pack. "InfoITHIUM" is a trademark of Sony Corporation.

Installing the battery pack

- (1) Lift up the viewfinder.
- (7) List up the "winded."
 (2) Insert the battery pack in the direction of the ▼ mark on the battery pack. Slide the battery pack down until it is locked.
 Attach the battery pack to the camcorder securely.



Note on installing the NP-F730/F730H/F750/F930/F950 battery pack Use the camcorder while stretching out the viewfinder

Note on the battery pack
Do not carry the camcorder by grasping the battery pack.

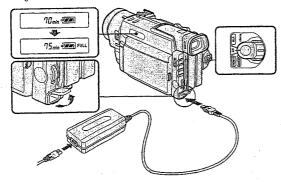
Charging the battery pack

Charge the battery pack on a flat surface without vibration. The battery pack is charged a little in the factory.

(1) Open the DC IN jack cover and connect the supplied AC power adaptor to the DC

Open the DC IN Jack cover and connect the supplied AC power adaptor to the DC IN Jack with the plug's ▲ mark up.
 Connect the power cord to the AC power adaptor.
 Connect the power cord to a wall outlet.
 Set the POWER switch to OFF. Remaining battery time is indicated by the minutes on the display window. Charging begins.
 When the remaining battery indicator becomes , normal charge is completed. For full charge, which allows you to use the battery longer than usual, leave the battery pack attached for about 1 hour after normal charge is completed until FULL appears in the display window.

Before using the camcorder with the battery pack, unplug the AC power adaptor from the DC IN Jack of the camcorder. You can also use the battery pack before it is completely charged.



- Notes

 "--- min" appears on the display window until the camcorder calculates remaining
- --- min appears of the display window roughly indicates the recording time with the viewfinder. Jee it as a guide. It may differ from the actual recording time.

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Installing and charging the battery pack

- Notes on remaining battery time indication during recording

 Remaining battery time is displayed on the LCD screen or in the viewfinder. However, the
 indication may not be displayed properly, depending on using conditions and
 circumstances.

 When you close the LCD panel or open it, it takes about 1 minute for the correct remaining
 time to be displayed.

To remove the battery pack Lift up the viewfinder. While pressing I BATT RELEASE, slide the battery pack in the direction of the arrow.



Installing and charging the battery pack

Charging time

| Battery pack | Charging time * | |
|--------------------|-----------------|--|
| NP-F330 (supplied) | 150 (90) | |
| NP-F530 | 210 (150) | |
| NP-F550 | 210 (150) | |
| NP-F730 | 300 (240) | |
| NP-F750/NP-F730H** | 300 (240) | |
| NP-F930 | 390 (330) | |
| NP-F950 | 390 (330) | |

- The time required for a normal charge is indicated in parentheses.

 Approximate minutes to charge an empty battery pack using the supplied AC power adaptor. (Lower temperatures require a longer charging time.)

 NP-F730H is sold only in the U.S.A.

Battery life

While using with viewfinder

| Battery pack | Continuous recording time * | Typical recording time ** |
|---------------------|-----------------------------|---------------------------|
| NP-F330 (supplied) | 70 (65) | 40 (35) |
| NP-F530 | 115 (105) | 55 (50) |
| NP-F550 | 145 (130) | 70 (65) |
| NP-F730 | 260 (235) | 135 (125) |
| NP-F750/NP-F730H*** | 300 (265) | 160 (140) |
| NP-F930 | 405 (360) | 210 (185) |
| NP-F950 | 465 (420) | 235 (220) |

While using with LCD

| Battery pack | Continuous recording time * | Typical recording time ** | Playing time with LCD |
|---------------------|--------------------------------|------------------------------|--------------------------|
| NP-F330 (supplied) | 60 (50) | 30 (25) | 70 (65) |
| NP-F530 | 90 (80) | 50 (45) | 115 (105) |
| NP-F550 | 115 (100) | 60 (50) | 145 (130) |
| NP-F730 | 200(180) | 110 (100) | 260 (235) |
| NP-F750/NP-F730H*** | 240 (210) | 135 (125) | 300 (265) |
| NP-F930 | 310 (280) | 170 (155) | 405 (360) |
| NP-F950 | 360 (320) | 200 (180) | 465 (420) |

Numbers in parentheses indicate the time when you use a normally charged battery.

Battery life will be shorter if you use the camcorder in a cold environment.

Approximate continuous recording time indoors.

Approximate uninutes when recording while you repeat recording start/stop, zooming and turning the power on/off. The actual battery life may be shorter.

NP-F730H is sold only in the U.S.A.

Inserting a cassette

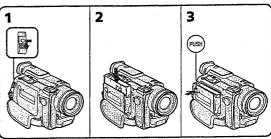
- You can use mini DVCAM cassette with [DVCAM]. logo*.

 Make sure that the power source is installed.

 (1) While pressing the small blue button on the EJECT switch, slide it in the direction of the arrow. The cassette compartment automatically opens.

 (2) Insert a cassette with the window facing out.

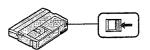
 (3) Close the cassette compartment by pressing the "PUSH" mark on the cassette
- - compartment.
- * [DVCAM] is a trademark.



To eject the cassette While pressing the small blue button on the EJECT switch, slide it in the direction of the $\,$

To prevent accidental erasure

Slide and open the lab on the cassette to expose the red mark. If you try to record with the red mark toposed, the 80a and \$\preceq\$ indicates flash on the LCD screen or in the viewfinder, and you cannot record on the tape. To re-record on this tape, slide and close the tab to cover the red mark.



q

Basic operations

Camera recording

Make sure that the power source is installed and a cassette is inserted. Before you record one-time events, you had better make a trial recording to make sure that the camcorder is working correctly.

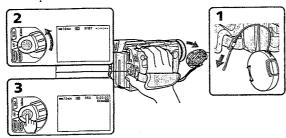
When you use the camcorder for the first time, power on it and reset the date and time to your time before you start recording (p. 118).

(1) Remove the lens cap by pressing both knobs on its sides and pull the lens cap string to fix it.

(2) While pressing the small cross hours.

- (2) While pressing the small green button on the POWER switch, set it to CAMERA. The camcorder is set to Standby mode.

(3) Press START/STOP. The camcorder starts recording. "REC" appears on the LCD screen or in the viewfinder. The camera recording lamp on the front of the camcorder also lights up.



To stop recording momentarily [a] Press START/STOP. The "STBY" indicator appears on the LCD screen or in the viewfinder (Standby mode).

To finish recording [b]
Set the POWER switch to OFF. Then, eject the cassette and remove the battery pack.



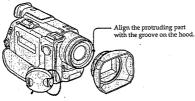




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Attaching the lens hood

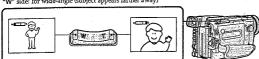
When the supplied wide conversion lens is not attached to the camcorder, we recommend you to attach the lens hood to record fine pictures, no matter where you shoot. You can also attach the lens cap when using the lens hood.



If an optional lens or filter is attached
When an optional lens or filter is attached to the camcorder, you cannot attach the lens hood.
Detach the optional lens or filter before attaching the lens hood.

Using the zoom feature

Zooming is a recording technique that lets you change the size of the subject in the scene. For more professional-looking recordings, use the zoom function sparingly. "T" side: for telephoto (subject appears closer) "W" side: for wide-angle (subject appears farther away)



Zooming speed (Variable speed zooming)
Press the power zoom lever a little for a relatively slow zo

zoom; press it still more for a high-

When you shoot a subject using a telephoto zoom

If you cannot get a sharp focus while in extreme telephoto zoom, press the "W" side of the
power zoom lever until the focus is sharp. You can shoot a subject that is at least about
about 80 cm (25 /8 feet) way from the lens surface in the telephoto position, or about
1 cm (about 1/2 inch) away in the wide-angle position.

To focus the viewfinder lens

If you cannot see the indicators in the viewfinder clearly, or after someone else has used the camcorder, focus the viewfinder lens. Move the viewfinder lens adjustment lever so that the indicators in the viewfinder come into sharp focus.



Note on Standby mode

If you leave the camcorder in Standby mode for 5 minutes while the cassette is inserted, the camcorder turns off automatically. This prevents wearing down the battery and wearing out the tape. To resume Standby mode, while pressing the small green button on the FOWER switch, set it to OFF once, and then to CAMERA. To start recording, press START/STOP.

Note on the progressive made

Note on the progressive mode If you modify the images on your personal computer or play the images back as still pictures, we recommend you to set PROG. SCAN to ON in the menu system before shooting. The picture qualify may improve in this mode, but if you shoot a moving subject, the image may shake when it is played back.

When you set the lock knob to the left position, the POWER switch will not be set to MEMORY accidentally.



Notes on the time code

- The time code indicates the recording or playback time, "0:00:00" (hours: minutes: seconds) in CAMERA mode and "0:00:00:00" (hours: minutes: seconds: frames) in VTR
- Blows.

 Be sure not to make a blank portion when recording, because the time code will start from "0.000.00" again.

 You can select the drop frame or non-drop frame system using the menu. (DSR-PD100
- only) $^{\circ}$ You can reset the time code to $^{\circ}$ 0:00:00 $^{\circ}$ in the CAMERA mode or to $^{\circ}$ 0:00:00:00 $^{\circ}$ in the VTR mode. Press the TC RESET button in the Recording or Recording pause mode.

Note on the tape recorded in the DV format

If you record in the DVCAM format on the tape that has been recorded in the DV format, the playback picture and sound may be distorted between the two formats.

Note on the been sound

Note that the beep sound is not record sound, select OFF in the menu system. nd is not recorded on the tape. If you do not want to hear the beep

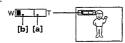
Note on remaining tape indicator
The indicator may not be displayed accurately depending on the tape. Though the indicator
does not appear at the time of recording, it will appear in a few seconds.

- Zooming of more than 12x digital zoom

 If you set the D ZOOM function to ON in the menu system, you can perform zooming of more than 12x performed digitally. It is set to OFF at the factory.

 You cannot use the digital zoom when you set PROG. SCAN to ON in the menu system.

 The right side [al of the power zoom indicator shows the digital zooming zone, and the left side [b] shows the optical zooming zone. If you set the D ZOOM function to ON, the [a] zone appears

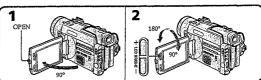


Shooting with the LCD screen

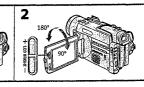
You can also record the picture while looking at the LCD screen.
When using the LCD screen, the viewfinder turns off automatically except in mirror mode.
You cannot monitor the sound from the speaker during recording.
(1) While pressing OPEN, open the LCD panel.
(2) Adjust angle of the LCD panel.
The LCD panel moves about 90 degrees to this side and about 180 degrees to the

other side.

To adjust the brightness of the LCD screen, press LCD BRIGHT + or -.
The battery life is longer when the LCD panel is closed. Use the viewfinder instead of the LCD screen to save the battery power.



Backlighting the LCD screen
If the LCD screen is insufficiently illuminated even after adjusting LCD BRIGHT, select LCD
B. L. in the ment system and set to BRIGHT. You can select LCD B. L. only while using the
battery pack as a power source.



Camera recording

- rise, the camcorder body may

- Notes on the LCD panel

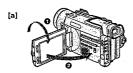
 When closing the LCD panel, turn it vertically until it clicks [a].

 When turning the LCD panel, turn it always vertically; otherwise, the camcorder body m be damaged or the LCD panel may not close properly [b].

 Close the LCD panel completely when not in use.

 Do not push nor touch the LCD panel while operating the camcorder.

 You may find it difficult to view the LCD screen due to glare when using the camcorder outdoors.

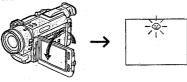




Letting the subject monitor the shot

You can turn the LCD panel over so that it faces the other way and you can let the subject monitor the shot while shooting with the viewfinder.

Turn the LCD panel up vertically. When you turn the LCD panel 180 degrees, the a indicator appears on the LCD screen (mirror mode) and the time code and remaining tape indicators disappear. You can also use the Remote Commander.



To cancel mirror mode
Turn the LCD panel down toward the camcorder body.

Camera recording

- Notes on mirror mode

 *When you turn the LCD panel about 135 degrees to 180 degrees, the camcorder enters mirror mode.

 *Using the mirror mode, you can record yourself while watching yourself on the LCD
- Osing the further induce, you can look like a mirror-image while recording in mirror mode.
 The picture on the LCD screen looks like a mirror-image while recording in mirror mode.
 The STBY indicator appears as II● and REC as ●. Other indicators appear as mirror-image. Some indicators may not appear in mirror mode.
 While recording in mirror mode, you cannot operate the following functions: MENU, TITLE.



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Camera recording

Self-timer recording

You can make a recording with the self-timer. This mode is useful when you want to record

yourself.

(1) Press © (self-timer) to display © (self-timer) on the LCD screen or in the viewfinder while the camcorder is in Standby mode.

(2) Press START/STOP.

Self-timer starts counting down to 10 with a beep sound. In the last two seconds of the countdown, the beep sound gets faster, then recording starts automatically at the time ways set. the time you set.



To stop self-timer recording Press START/STOP. Use the Remote Commander for convenience.

To record still pictures using the self-timer Press PHOTO in step 2.

To cancel self-timer recording Press $\mathfrak O$ so that the $\mathfrak O$ indicator disappears from the LCD or viewfinder screen while the camcorder is in Standby mode.

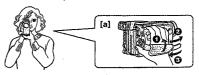
Self-timer recording mode is canceled when • Self-timer recording is finished. • The POWER switch is set to OFF or VTR.

Note The display may become darker right after pressing the \odot button. This is not a malfunction.

Hints for better shooting

For hand-held shots, you will get better results by holding the camcorder according to the following suggestions:

• Hold the camcorder firmly and secure it with the grip strap so that you can easily manipulate the controls with your thumb. [a]



- Place your elbows against your side.
 Place your left hand under the camcorder to support it.
 Place your eye against the viewfinder eyecup.
 Be sure not to touch the build-in microphone.
 Use the LCD panel frame or the viewfinder frame as a guide to determine the horizontal
- Use the LCD patter finance of the American

 You can also record in a low position to get an interesting angle. Lift the viewfinder up for record from a low position. [b]

 You can also record in a low position or even in a high position using the LCD panel. [c]

 When you use the LCD screen outdoors in direct sunlight, the LCD screen may be difficult to see. If this happens, we recommend that you use the viewfinder.







Hints for better shooting

Place the camcorder on a flat surface or use a tripod

Try placing the camorder on a hable top or any other flat surface of suitable height. If you have a tripod for a still camera, you can also use it with the camorder. When attaching a non-Sony tripod, make sure that the length of the tripod secure is less than 6.5 mm (9/32 inch). Otherwise, you cannot attach the tripod securely and the screw may damage the

Cautions on the LCD panel and on the viewfinder

Do not pick up the camcorder by the viewfinder or the LCD panel. [d]

Do not place the camcorder so as to point the viewfinder or the LCD panel toward the sun. The inside of the viewfinder or the LCD panel may be damaged. Be careful when placing the camcorder under sunlight or by a window. [e]





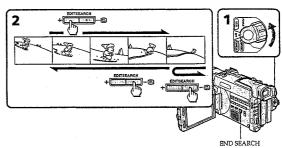
Checking the recorded picture

Using the EDITSEARCH, you can review the last recorded scene or check the recorded

Using the EDISPARCH, you can review the last recorded science of check the recorded

(1) While pressing the small green button on the POWER switch, set it to CAMERA.

(2) Press the -⊕ side of EDITSEARCH momentarily; the last few seconds of the
recorded portion plays back (Rec Review). Hold down the - side of EDITSEARCH
until the camcorder goes back to the scene you want. The last recorded portion is
played back. To go forward, hold down the + side (Edit Search).



To stop playback Release EDITSEARCH.

To go back to the last recorded point (END SEARCH)
Press RND SEARCH. The last recorded point is played back for about 5 seconds and stops.
Note that when you use a tape without cassette memory, this function does not work once
you eject the cassette after recording.

To begin re-recording

Press START/STOP. Re-recording begins from the point you released EDITSEARCH.
Provided you do not eject the tape, the transition between the last scene you recorded and the next scene you record will be smooth.

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Playing back a tape

You can monitor the playback picture on the LCD screen or in the viewfinder.

You can monitor the playback picture on the LCD screen or in the viewfinder.

(1) Insert the recorded lape with the window facing out.

(2) While pressing OPEN, open the LCD panel.

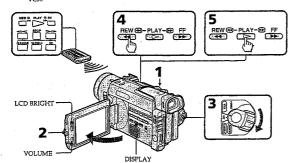
(3) While pressing the small green button on the POWER switch, set it to VTR.

(4) Press ∠ to rewind the tape.

(5) Press ∠ to start playback.

Adjust the volume using VOLUME +/- and the brightness of the LCD screen using LCD BRIGHT +/
You can also monitor the picture on a TV screen, after connecting the camcorder to a TV or VCD.

You o



To stop playback, press □.

To rewind the tape, press ◄◄.

To fast-forward the tape rapidly, press ▶▶.

Using the Remote Commander

as an control playback using the supplied Remote Commander. Before using the Remote mander, insert the size AA (R6) batteries.

To display the LCD screen/viewfinder screen indicators Press DISPLAY. To erase the indicators, press again.

Notes on screen indicators

• The screen indicator disappears when the title is displayed.

• When you play back a tape using a "InfoLITHIUM" battery, @ indicates the remaining battery capacity. The remaining battery time in minutes is not displayed.

Using headphones

Connect headphones (not supplied) to the Ω jack. You can adjust the volume of the headphones using VOLUME +/-.

Playing back a tape

To view the playback picture in the viewfinder Close the LCD panel. The viewfinder turns on automatically. When using the viewfinder, you can monitor the sound only by using headphone To view on the LCD screen again, open the LCD panel. The viewfinder turns off automatically.

Note on DV-formatted tapes
You can play back DV-formatted tapes on this camcorder if the tape is recorded in SP mode.
'SP' appears on the LCD screen or in the viewfinder during playback.
You cannot play back DV-formatted tapes recorded in LP mode.

Various playback modes

To view a still picture (playback pause)
Press II during playback. To resume playback, press II or

To locate a scene (picture search)
Keep pressing ≪ or ▶► during playback. To resume normal playback, release the button.

To monitor the high-speed picture while advancing the tape or

rewinding (skip scan)
Keep pressing ◄◄ while rewinding or ▶▶ while advancing the tape. To resume normal
rewinding or fast-forward, release the button.

To view the picture at 1/3 speed (slow playback)

Press I► on the Remote Commander during playback. For slow playback in reverse direction, press <, then press I►. To resume normal playback, press I►.

To view the picture at double speed
For double speed playback in the reverse direction, press <, then press <2 on the Remote
Commander during playback. For double speed playback in the forward direction, press >>,
then press ×2 during playback. To resume normal playback, press >>.

To view the picture frame-by-frame
Press ≪II or III → on the Remote Commander in playback pause mode. If you keep pressing
the button, you can view the picture at 1,70 speed (DSR-PD100) or at 1/25 speed (DSRPD100P). To resume normal playback, press ▷.

To change the playback direction Press < on the Remote Commander for reverse direction or > on the Remote Commander for forward direction during playback. To resume normal playback, press >.

Notes on playback

Notes on playback.

The sound is muted in the various playback modes.

During playback other than normal playback, the previous recording may appear in mosaic image. This is not malfunction.

When playback pause mode lasts for 5 minutes, the camcorder automatically enters stop mode. To resume playback, press ⊳.

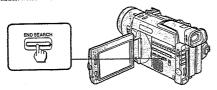
Note on slow playback
The slow playback can be performed smoothly on this camcorder; however, this function does not work for an output signal from the LDV IN/OUT jack.

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Searching for the end of the picture

You can go to the end of the recorded portion after you record and play back the tape. The tape starts rewinding or fast-forwarding and the last about 5 seconds of the recorded portion plays back. Then the tape stops at the end of the recorded picture (End Search).

Open the LCD panel and press END SEARCH during recording standby This function works when the POWER switch is set to CAMERA or VTR.



- Notes on End Search

 When you use a tape without cassette memory, the End Search function does not work
 once you eject the cassette after recording.

 When you use a tape with cassette memory, the End Search function works once you eject
 the cassette. When you play back a tape which has a blank portion in the beginning or
 between the recorded portions, the End Search function will not work correctly.

Advanced operations

Using alternative power sources

You can choose any of the following power sources for your camcorder: battery pack, and house current (mains). Choose the appropriate power source depending on where you want to use your camcorder.

| Place | Power source | Accessory to be used |
|----------|-----------------------|--|
| Indoors | House current (Mains) | Supplied AC power adaptor |
| Outdoors | Battery pack | Battery pack NP-F330 (supplied), NP-F530, NP-F550, NP- F730, NP-F730H+, NP-F750, NP-F930, NP-F950 |

* NP-F730H is sold only in the U.S.A.

Note on power sources

Disconnecting the power source or removing the battery pack during recording or playback may damage the inserted tape. If this happens, restore the power supply again immediately.

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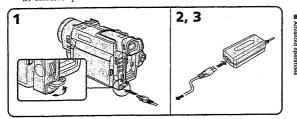
Using the house current (mains)

- To use the supplied AC power adaptor:

 (1) Open the DC IN jack cover, and connect the AC power adaptor to the DC IN jack on the camcorder.

 (2) Connect the power cord (mains lead) to the AC power adaptor.

 (3) Connect the power cord (mains lead) to a wall outlet (mains).



WARNING

The power cord (mains lead) must be changed only at a qualified service shop.

PRECAUTION

The set is not disconnected from the AC power source (house current/mains) as long as it is connected to the power cord (mains lead), even if the set itself has been turned off.

Keep the AC power adaptor away from the camcorder if the picture is disturbed.

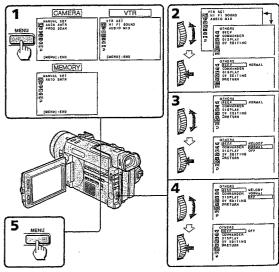
Changing the mode settings

You can change some of the mode settings programed at the factory to further enjoy the features and functions of the camcorder. Just turn the control dial to select the menu items displayed on the LCD screen. You can make selections in the following order: the menu display — isons — items — mode settings.

(1) Press MENU to display the menu.

(2) Turn the control dial to select the desired icon on the left side of the menu, then

(2) Turn the control dial to select the desired item, then press the dial.
(3) Turn the control dial to select the desired item, then press the dial.
(4) Turn the control dial to select the desired mode, then press the dial. If you want to change the other modes, repeat steps 3 and 4. If you want to change the other modes, repeat steps 3 and 4. If you want to change the other items, select ⇒ RETURN and press the dial, then repeat steps 2 to 4.
(5) Press MENU to erase the menu display.



hanging the mode settings as differ depending on the setting of the POWER switch to VTR, CAMERA or

MEMORY.

While recording in mirror mode, you cannot operate the menu system.

Items for the MMANUAL SET menu

- AUTO SHTR <ON/OFF>
 Select ON and the electronic shutter functions automatically when shooting in bright conditions.

 • Select OFF and the electronic shutter does not function even in bright conditions.

PROG. SCAN* <OFF/ON>

- Select OF not to record still/moving pictures with all the pixels.
 Select ON to record still/moving pictures with all the pixels.

Items for the @ CAMERA SET menu

D 200M <0FF/ON>
Select OFF not to use the digital zoom. The camcorder goes back to 12x optical zoom
Select ON to activate digital zooming.

16:9WIDE <OFF/ON> Select this item to record a 16:9 wide picture. See page 39 for details.

STEADYSHOT <ON/OFF>

Normally select ON.
 Select OFF when you do not have to worry about camera-shake.

Adjust the setting level of AE (Automatic Exposure). See page 52 for details.

GAIN SHIFT <0dB/-3dB

- Set the gain value to 0dB.
 Set the gain value to -3dB.

FRAME REC <OFF/ON>

- Normally select OFF.

 Select ON for cut recording.
 When you remove the power source, the setting becomes OFF.

- INT.REC <ON/OFF/SET> <WAIT TIME/REC TIME>

 Normally select OFF. Select ON to make an interval recording.

 Select WAIT TIME to set or change the waiting time for interval recording.

 Select REC TIME to set or change the recording time for interval recording.

 When you remove the power source, the setting becomes OFF, but the waiting time and recording time are retained.

Items for the 🖾 VTR SET menu

- HEMS TOF THE 48 OF A SET HEME HIR SOUND'S -STEREO/1/2> Select 1 to play back stereo sound or main and sub sound (for dual sound). Select 1 to play back the left sound (for stereo sound) or main sound (for dual sound). Select 2 to play back the right sound (for stereo sound) or sub sound (for dual sound).

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Changing the mode settings

PHOTO SAVE

Select this item to duplicate still pictures. See page 98 for details

- Items for the @ CM SET menu CM SEARCH < ON/OFF> Select ON to search using cassette memory. Select OFF to search without using cassette memory.

Erase the title you have superimposed.

- TITLE DSPL <ON/OFF>
 Select ON to display the title you have superimposed.
 Select OFF not to display the title.

TAPE TITLE
Select this item to label the cassette tape.

ERASE ALL Select this item to erase all the data in cassette memory.

Items for the 🖾 TAPE SET menu

- AUDIO MODE <F532K/F548K>
 Normally select F532K to record two stereo sounds.
 Select F548K to record the one stereo sound with high quality.

MIC LEVEL* <AUTO/MANUAL>

- Select AUTO to adjust the recording level automatically
 Select MANUAL to adjust the recording level manually

MREMAIN <AUTO/ON>

- Select ON to always display the remaining time of the tape in the following cases:

 With the power on or a tape inside, for eight seconds after the remaining time of the tape becomes certain.

 For eight seconds after the ▷ or DISPLAY button is pressed.

 During rewinding, fast-forwarding, and searching the picture.

 Select ON to always display the remaining time of the tape.

- DATA CODE <DATE/CAM or DATE>

 Select DATE/CAM to display date and recording data during playback.

 Select DATE to display date during playback.

- TIME CODE <DF/NDF> (DSR-PD100 only)

 Select DF to record in the drop frame system.

 Select NDF to record in the non-drop frame system.

Items for the 📾 SETUP menu

Select this item to reset the date or time

LTR SIZE <NORMAL/2X>

Normally select NORMAL.
 Select 2X to display the selected menu item by twice size of the normal.

Select this item to adjust the balance between the stereo 1 and stereo 2 by turning the control dial.

NTSC PB <ON PAL TV/NTSC 4.43> (DSR-PD100P only)

Normally select ON PAL TV.

Select NTSC 4.43 when playing back a tape recorded in the NTSC color system. When you play back on a Multi System TV, select the best mode while watching the picture on the TV.

Items for the 🖾 LCD/VF SET menu

LCD B.L. <BRT NORMAL/BRIGHT>

 Normally select BRT NORMAL.
 Select BRIGHT when the LCD screen is dark. The battery consumption increases by 10 to Even if you adjust the LCD B.L., the recorded picture is not affected.

LCD COLOR (LCD COLOUR) Select this item and change the level of the indicator by turning the control dial up (+) or down (-) to adjust the color intensity of the picture.

VF BRIGHT

Close the LCD panel. Close the LLD panel. Select this item to adjust the brightness of the viewfinder. The viewfinder becomes brighter when you turn it down (\rightarrow).

Items for the 🖾 MEMORY SET menu

CONTINUOUS <OFF/ON/MULTI SCRN>
•Select OFF not to record continuously.
•Select No to record 1 to 4 pictures continuously.
•Select MULTI SCRN to record nine pictures continuously.

- QUALITY <STANDARD/FINE/SUPER FINE>
 Select STANDARD to record still pictures in the standard image quality mode, using the
- memory card slot.

 Select FINE to record still pictures in the fine image quality mode, using the memory card
- slot.

 Select SUPER FINE to record still pictures in the superfine image quality mode, using the

- PROTECT <OFF/ON>
 Normally select OFF not to protect still pictures.
 Select ON to protect selected still pictures against accidental erasure. See page 106 for details.

SLIDE SHOW
Select this item to play back images in a continuous loop. See page 112 for details.

DELETE ALL
Select this item to delete all the images. See page 108 for details.

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Select this item to format memory sticks or PC cards. See page 94 for details.

Changing the mode settings

Items for the FR OTHERS menu

WORLD TIME
Select this item to set the clock by a time difference. See page 119 for details.

REEP - MELODY/NORMAL/OFF>

- BEET * MRELUTY/NUMMAL/OFF>
 Normally select MELODY so that a melody sounds when you start/stop recording, etc.
 Select NORMAL so that beeps sound when you start/stop recording, etc.
 Select OFF when you do not want to hear the beep sound.
- COMMANDER* < ON/OFF>

Solect ON when using the supplied Remote Commander for the camcorder. Select OFF when not using the Remote Commander.

DISPLAY < LCD or V-OUT/LCD >

Normally select LCD.
 Select V-OUT/LCD to display indicators both on the LCD screen and TV screen.

REC LAMP < ON/OFF>

- Normally select ON.

 Select OFF when you do not want the camera recording lamp on the front of the unit to light up.

- COLOR BAR (COLOUR BAR) <OFF/ON>
 Normally select OFF not to display the color bar.
 Select ON to display the color bar.

DV EDITING

Select this item when editing a tape on another equipment connected with the i.LINK cable (DV connecting cable). See page 82 for details.

* These settings return to the default 5 minutes or more after the power source is disconnected or battery is removed. As far as the other items without an asterisk are concerned, their settings are retained even when the power source is disconnected or battery is removed, as long as the vanadium-lithium battery is charged.

When recording a close subject
When REC LAMP is set to ON, the red camera recording lamp on the front of the camcorder
may reflect on the subject if its close. In this case, we recommend you set REC LAMP to may OFF.

- When playing back a tape recorded in the FS48K (16-bit) mode, you cannot adjust the balance in AUDIO MIX.
- balance in AUDIO MIX.

 If you select FS48K in AUDIO MODE, you cannot add an audio sound.

 If you select FS48K in AUDIO MODE, you cannot add an audio sound.

 If you select BRIGHT in LCD B.L., the battery life while recording decreases 10 to 20%.

 When you use a power source other than the battery, the menu Item LCD B.L. is set to BRIGHT automatically and the item does not appear on the screen.

Photo recording

You can record a still picture like a photograph for about seven seconds. This photo recording is useful when you want to enjoy a picture such as a photograph or when you print a picture using a video printer (not supplied). You can record about 340 pictures on a 40-minute tape.

Adminute tape.

Besides the operation described here, this camcorder can record a still picture on a memory stick or PC card (not supplied), using the memory card slot (see page 100). You can also record still/moving pictures on a mini DVCAM tape with all the pixels in the progressive mode. See page 35 for details.

(1) While pressing the small green button on the POWER switch, set it to CAMERA.

(2) Keep pressing PHOTO lightly until a still picture and "CAPTURE" appears on the LCD screen or in the viewfinder.

Recording does not start yet. To change the still picture, release PHOTO, select still picture again, and keep pressing PHOTO lightly again.

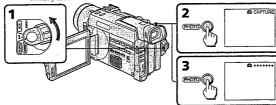
If you press PHOTO on the Remote Commander when a still picture appears on the LCD screen or in the viewfinder, the camcorder will record that still picture. However, you cannot select other still picture by using this button.

the LCD screen or in the viewthnder, the camcorder will record that still pictures. However, you cannot select other still pictures by using this button.

(3) Press PHOTO deeper.

The still picture on the LCD screen or in the viewfinder is recorded for about seven seconds. The sound during those seven seconds is also recorded.

To record a still picture while normal recording, press PHOTO deeper. Then the still picture is recorded for about seven seconds and the camcorder returns to



When shooting in the dark
Install the HVL-FDH2 video flash light (not supplied) to the accessory shoe. If the exposure is in manual exposure mode, set it to automatic exposure mode. When 4 appears next to the "CAPTURE" indicator on the LCD screen or in the viewfinder, the video flash is ready to be used.

Note on the still picture When the still picture recorded on this camcorder picture may be blurred. This is not a malfunction. corded on this camcorder is played back on another VCR, the

When you press PHOTO while recording a photo
The picture on the LCD screen or in the viewfinder whenever you press PHOTO will be
recorded. You cannot check the recorded picture by pressing PHOTO lightly.
After the moving picture is recorded as a still picture for about seven seconds, the camcorder
will go back to Standby mode.

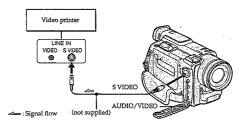
34

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Photo recording

Printing the still picture

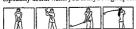
You can print a still picture by using the video printer (not supplied). Connect the video printer using the S video connecting cable (not supplied). Refer to the operating instruction of the video printer as well.

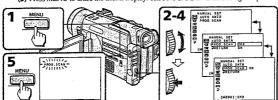


If the video printer is not equipped with 5 VIDEO input Use the supplied A/V connecting cable. Connect it to the AUDIO/VIDEO jack and connect the yellow plug of the cable to the VIDEO input of the video printer.

Shooting with all the pixels - PROG. SCAN

When modifying the digital images on your personal computer, set PROG. SCAN to ON before shooting. You can record the images on a mini DVCAM tape frame by frame with higher resolution. Since the image taken in progressive mode does not go out of focus even in a pause, it is especially useful when you analyze high-speed actions such as sport scenes.





To return to normal mode

the control dial. OFF in step 4, then press

Note on the progressive mode
The normal TV broadcast divides the screen into two finer fields and displays them in turns every 1/60 of a second (DSR-PD100) or 1/50 of a second (DSR-PD100P). Thus, the actual image displayed in an instant covers only half of the apparent image area. Displaying the whole image simultaneously on a full screen is called displaying with all the pixels. In this mode, the resolution of the still picture is twice as high as in the normal mode. This camcorder takes in an image every 1/30 of a second (DSR-PD100) or 1/25 of a second (DSR-PD100P), which may cause the image of a moving object to go out of focus.

The setting at the factory
This camcorder is originally programed to record still/moving pictures on a mini DVCAM tape in the normal TV format (Interlace format).

When shooting under fluorescent light

When shooting under fluorescent light
When shooting in the progressive mode under fluorescent light or light bulb, a rare
phenomenon may happen in which the screen lights up brightly (Flicker phenomenon),
is not a malfunction. If you want to stop this phenomenon, set PROG. SCAN to OFF in t

Using the FADER function

You can fade in or out to give your recording a professional appearance. When fading in, the picture gradually fades in while the sound increases. When fading out, the picture gradually fades out while the sound decreases.



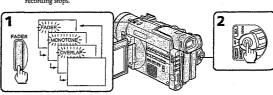
WOND ONE
When fading in, the picture gradually changes from black and white to color.
When fading out, the picture gradually changes from color to black and white.

(1) While the camcorder is in Standby mode, press FADER until the desired indicator flashes.

(2) Press START/STOP to start recording. The fade indicator stops flashing.

When fading out [b]
(1) During recording, press FADER until the desired indicator flashes

(2) Press START/STOP to stop recording. The fade indicator stops flashing, and then



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Using the FADER function

To cancel the fader function
Before pressing START/STOP, press FADER until the fade indicator disappears.

You cannot use the fader function in the following situations

-The cannoorder is in the photo recording.

- A title is displayed on the LCD screen or in the viewfinder. If the title is not necessary, erase it before using the fader function.

During fading, you cannot operate the DIGITAL EFFECT button.

- The fader function is effective in the following situations

 A big change of scene (FADE IN, FADE OUT)

 The beginning of a story (FADE IN)

 The end of a day (FADE OUT)

 Change the scene while leaving the trace of the previous scene

If you use the fader function repeatedly
The situation the subject is in cannot be seen clearly, thus making the picture difficult to enjoy.

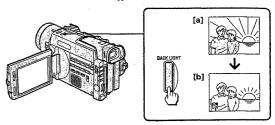
When the OVERLAP indicator appears

The camcorder automatically memorizes the image recorded on a tape. As the image is being memorized, the OVERLAP indicator flashes fast, and the playback picture is displayed. At this stage, the picture may not be recorded clearly, depending on the tape condition.

Shooting with backlighting

When you shoot a subject with the light source behind the subject or a subject with a light background, use the BACK LIGHT function.

Press BACK LIGHT. The $\ensuremath{\boxtimes}$ indicator appears on the LCD screen or in the viewfinder.



[a] Subject is too dark because of backlight.

[b] Subject becomes bright with backlight comp

After shooting

Be sure to release this adjustment condition by pressing BACK LIGHT again. The Sindicator disappears. Otherwise, the picture will be too bright under normal lighting

This function is also effective under the following conditions:

• A subject with a light source nearby or a mirror reflecting light.

• A white subject against a white background. Especially when you shoot a person wearing shiny clothes made of silk or synthetic fiber, his or her face tends to become dark if you do not use this function.

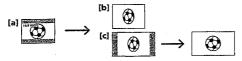
Note on the BACK LIGHT function When you press EXPOSURE or SHUTTER SPEED, the BACK LIGHT function is canceled.

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Using the wide mode function

You can record a 16:9 wide picture to watch on the 16:9 wide-screen TV (16:9WIDE). The picture with black bands at the top and the bottom on the LCD screen or in the viewfinder [a] is normal. The picture on a normal TV [b] is horizontally compressed. You can watch the picture of normal images on a wide-screen TV [c].



(1) Set the POWER switch to CAMERA.

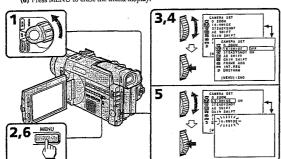
(2) Press MENU to display the meru.

(3) Turn the control dial to select 59, then press the dial.

(4) Turn the control dial to select 16, 50 WIDE, then press the dial.

(5) Turn the control dial to select ON, then press the dial.

(6) Press MENU to erase the menu display



To cancel wide mode

Select OFF in step 5, then press the control dial.

To watch the tape recorded in wide mode
To watch the tape recorded in 16:9WIDE mode, set it to full mode. For details, refer to the
operating instruction of your TV.
Note that the picture recorded in 16:9WIDE mode looks compressed on a normal TV.

Notes on wide mode

•In wide mode, you cannot select the old movie function with DIGITAL EFFECT.

•You cannot select or cancel the wide mode during recording.

•You cannot use the wide mode function when you set PROG. SCAN to ON.

Enjoying picture effect

Selecting picture effect You can make pictures like those of television with the Picture Effect function.











NEG. ART [a]

The color of the picture is reversed SEPIA

The picture is sepia. B&W

The picture is monochrome (black and white).

SOLARIZE [b]The light intensity is clearer, and the picture looks like an illustration.

SLIM [c] The picture expands vertically.

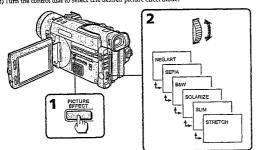
STRETCH [d]

The picture expands horizontally

Enjoying picture effect

Using picture effect function

- (1) While in Standby mode, press PICTURE EFFECT.
- (2) Turn the control dial to select the desired picture effect mode.



To return to normal mode
Press PICTURE EFFECT so that the indicator disappears.

- Notes on the picture effect

 •When you turn the power off, the camcorder returns automatically to normal mode.

 •You cannot select SLIM and STRETCH when you set PROG. SCAN to ON.

 •While using the picture effect function, you cannot select the old movie function with DIGITAL EFFECT.

Recording with various effects – digital effect

With the following functions of Digital Effect, you can add various visual effects to the picture. The sound is recorded normally.

STILL

You can record a still picture to be superimposed on a moving picture.



FLASH
You can record still pictures successively at constant intervals.

LUM).

ou can replace a brighter portion of a still picture with a moving picture.



TRAIL
You can record the picture which leaves an incidental image, such as a trail.

You can record the picture such as an old movie. The camcorder automatically sets the wide mode to 16:9WIDE, picture effect to SEPIA, and the appropriate shutter speed.

- (1) While in Standby mode or Recording mode, press DIGITAL EFFECT.
 The digital effect indicator flashes.

 (2) Turn the control dial to select the desired digital effect mode.

 (3) Press the control dial. The digital effect indicator lights up and the bars appear. The bar does not appear in the OLD MOVIE mode. The still picture is stored in memory in the STILL or LUMI. mode.

in the STILL or LUMI. mode.

(4) Turn the control dial to adjust effects.
The longer the bar is, the greater the effects are.

STILL: The proportion of still picture to moving picture.

FLASH: The length of the intervals.

LUMI.: The brightness of the area where you paste the moving picture.

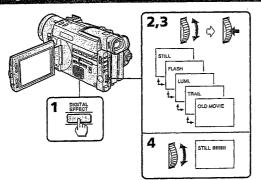
TRAIL: The length of time the incidental image remains.

OLD MOVIE: No adjustment necessary.

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Recording with various effects - digital effect



To cancel digital effects
Press DIGITAL EFFECT so that the indicator disappears

- Notes on digital effect

 You cannot use the following functions while using the digital effect.

 Functions using the FADER button

 Functions using the PATOTO button

 When you set the POWER switch to OFF, the digital effect will be canceled automatically.

Notes on the OLD MOVIE mode

Notes on the OLD MOVE mode.

You cannot use the following functions in the OLD MOVIE mode.

- Functions using the PROGRAM AE button

- 16-9WIDE mode

- Functions using the PICTURE EFFECT button

Shooting with manual adjustment.

Under normal conditions, this unit automatically makes various adjustments as it shoots. However, you can adjust manually the following functions to your preference.

Functions you can adjust by setting the AUTO LOCK selector to the center (auto lock release) position
Brightness (exposure), shutter speed, white balance, and program AE

Functions you can adjust by setting MENU Recording level, deactivating the Steady Shot, gain shift, and AE shift

Functions you can adjust by using other buttons/switches ND filter, focus, zebra pattern

The following describes how to adjust all the functions mentioned above except program AE (see page 54) and focus (see page 57).

AUTO LOCK selector
Set the selector as shown below to maintain or release the settings of the functions.



AUTO LOCK [a] Select this position to let the unit adjusts all the functions automatically.

HOLD [b] Select this position after setting the functions manually to maintain the settings.

Manual position [c] Select this position to adjust manually the functions listed above.

Adjusting exposure

Adjust the exposure manually under the following cases.





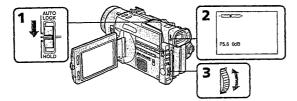
- [a]
 The background is too bright (back lighting)
 Insufficient light: most of the picture is dark

- [b]
 Bright subject and dark background
 To record the darkness faithfully
- (1) Set AUTO LOCK selector to the center (auto lock release) position while the camcorder is in Standby mode.

 (2) Press EXPOSURE. The exposure indicator appears on the LCD screen or in the
- viewfinder.

 (3) Turn the control dial to adjust the exposure.

Shooting with manual ad



To return to automatic exposure mode
Set AUTO LOCK selector to AUTO LOCK or press EXPOSURE to turn off the exposure indicator.

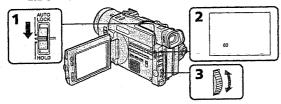
- Notes
 The control dial does not have a stop position.
 If you press PROGRAM AE, the exposure comes back to automatic adjustment again.
 When you adjust the exposure manually, you cannot use the BACK LIGHT function.

Adjusting the shutter speed

- (1) Set AUTO LOCK selector to the center (auto lock release) position while the
- camcorder is in Standby mode.

 (2) Press SHUTTER SPEED. The shutter speed indicator appears on the LCD screen or
- in the viewfinder.

 (3) Turn the control dial to select the desired speed. The available shutter speed ranges from 1/4 to 1/10000.



To return to automatic shutter speed mode
Set AUTO LOCK selector to AUTO LOCK or press SHUTTER SPEED to turn off the shutter speed indicator.

When shooting at slow shutter speed
At slow shutter speed, automatic focus may be lost. Adjust focus manually using a tripod.

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Shooting with manual adjustment

If you have selected 🗻 in step 3

If you have selected so in step 3
When you set the white balance to one-push white balance mode, the setting is locked and maintained even if lighting conditions change. You can achieve recording with natural colors without being affected by ambient light.

(With the so indicator on the screen)

(1) Shoot a white object such as paper fully on the LCD screen or in the viewfinder.

(2) Press the control dial.

The so indicator flashes quickly. When the white balance has been adjusted and stored in the memory, the indicator stops flashing. The setting will be maintained for about one hour after the battery is detached.

To return to automatic adjustments
Set AUTO LOCK selector to AUTO LOCK or press WHT BAL to turn off the white balance indicator.

- Notes on the & indicator on the screen

 The state of the indicator shows as follows:
 Slow flashing: white balance is not adjusted.
 Fast flashing: white balance is being adjusted.
 Lights up: white balance has been adjusted.

 When the & indicator remains flashing even if you press the control dial, shoot in automatic white balance mode.

- Notes on Write Bulance

 When you shoot with studio lighting or video lighting, use the & (indoor) mode.

 When you shoot with fluorescent lighting, use automatic white balance mode. If you use the & (indoor) mode, white balance may not be adjusted appropriately.

- Shooting when lighting conditions change

 When lighting conditions have changed, readjust the white balance with the control dial while the camcorder is in Standby mode.

 When you adjust the exposure and shutter speed manually, and move from indoors to outdoors, or vice versa, adjust the white balance again.

 When you move from indoors to outdoors, or vice versa, or detach the battery for replacement while shooting in automatic white balance mode or set the POWER switch to CAMERA, point the camcorder at a white subject for about 10 seconds before you start recording.

oting with manual adjustment

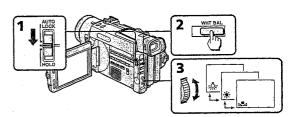
Adjusting the white balance

White balance adjustment makes white subjects look white and allows more natural color balance for camera recording. Normally white balance is automatically adjusted. You can obtain better results by adjusting the white balance manually when lighting conditions change quickly or when recording outdoors: e.g., neon signs, fireworks.

(1) Set AUTO LOCK selector to the center (auto lock release) position while the

- camcorder is in Standby mode.

 (2) Press WHT BAL. The white balance indicator appears on the LCD screen or in the
- (2) Press Will Date the select the appropriate white balance mode under the following conditions. As you turn the dial, the display changes as follows:
 (2) One-push white balance) → ★ (Outdoor) → ♠ (Indoor).



Shooting conditions Display Adjusting the white balance according to the light source.
 This operation is not available during recording. Follow the steps described on the next page to adjust the settings again. 200 Recording a sunset/sunrise, just after sunset, just before sunrise, neon signs, or fireworks
Under a color matching fluorescent lamp ₩ (Outdoor) Lighting condition changes quickly
Too bright place such as photography studios
Under sodium lamps or mercury lamps : (Indoor)

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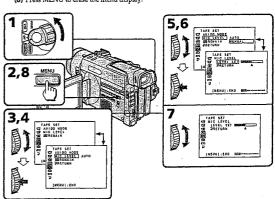
Shooting with manual adjustment

Adjusting recording level

You can adjust the recording sound level. Use headphones to monitor the sound when you

- adjust.
 (1) Set the POWER switch to CAMERA.

- (1) Set the POWER switch to CAMERA.
 (2) Press MENU to display the menu.
 (3) Turn the control dial to select \(\overline{\over



To adjust the microphone level automatically Select AUTO in step 5, then press the control dial.

- Notes on the adjustment

 The sound level setting is retained as long as the power is on and for about five minutes after removing the battery.

 Sound level indicator appears at the lower right on the LCD screen or in the viewfinder.

The sound input through the AUDIO/VIDEO jack You cannot adjust the recording level of the sound.

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Shooting with manual adjustment

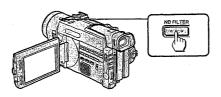
Using the ND filter

Using the ND filter (corresponds to 16% of the quantity of light), you can record a picture clearly, preventing the picture from going out of focus under bright conditions.

When ND ON flashes on the LCD screen or in the viewfinder The ND filter is necessary. Press ND FILTER so that the ND ON indicator appears. The ND filter is now activated.

When ND OFF flashes on the LCD screen or in the viewfinder The ND filter is not necessary. Press ND FILTER so that the ND OFF indicator stops

flashing. The ND filter is now deactivated.

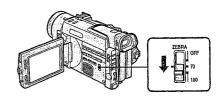


Shooting with manual adjustme

Shooting with the zebra pattern

You can set the camcorder to display a zebra pattern (diagonal stripes) in the portion of the picture on the LCD screen or in the viewfinder with a subject whose brightness exceeds a certain level. The portion of the picture where zebra pattern appears is an area of high brightness and overexposure. You can check the picture level of a subject by displaying the zebra pattern. Use the zebra pattern as a guide for adjusting the exposure and shutter speed so that you can get the desired picture.

Set the ZEBRA selector to 70 or 100.



To erase the zebra pattern Set the ZEBRA selector to OFF.

Settings of the ZERRA selector

| Setting | Meaning |
|---------|--|
| 70 | The zebra pattern appears in the portion of the picture on the LCD screen or in the viewfinder with a subject whose brightness is about 70 IRE (70%). |
| 100 | The zebra pattern appears in the portion of the picture on the LCD screen or in the viewfinder with a subject whose brightness exceeds more than 100 IRE (100%). |
| OFF | The zebra pattern does not appear on the LCD screen or in the viewfinder. |

Note on shooting with the zebra pattern
Even though you see the zebra pattern on the LCD screen or in the viewfinder, the zebra
pattern is not recorded.

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Shooting with manual adjustment:

Releasing the Steady Shot function

When the Steady Shot function is working, the camcorder compensates for camera-shake.

You can release the Steady Shot function when you do not need to use it. The ** indicator appears on the LCD screen or in the viewfinder. Do not use the Steady Shot function when shooting a stationary object with a tripod.

(1) Set the POWER switch to CAMERA.

(2) Press MENU to display the menu.

(3) Turn the control dial to select ** Size of the press the dial.

(4) Turn the control dial to select OFF, then press the dial.

(5) Turn the control dial to select STEADYSHOT, then press the dial.

(6) Press MENU It to grase the menu display.

- (6) Press MENU to erase the menu display

3,4 O ZOON IN 14:9WIOE W SIEADTSHOT ON IN AS SKIFT ♡ CO AE SRIFT
DE GAIN SRIFT
DE FRAME REC
INT. REC
D DRETURN 5 2,6 ♡ STEADYSHOT OFF M AE SHIF:

M GAIN SHIF

SHOP FRANC REC

INT. REC

D DRETURN

To activate the Steady Shot function again

Select ON in step 5, then press the control dial.

Notes on the Steady Shot function

• The Steady Shot function will not correct excessive camera-shake.

• If you use a tele conversion lens or a wide conversion lens, the Steady Shot function may not be fully effective.

Adjusting AE shift

Shooting with manual adjustment

- (1) Set the POWER switch to CAMERA.

 (2) Press MENU to display the menu.

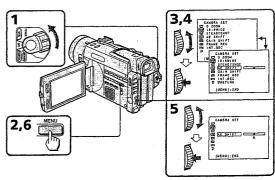
 (3) Turn the control dial to select AE SHIFT, then press the dial.

 (4) Turn the control dial to select AE SHIFT, then press the dial.

 (5) Turn the control dial to adjust brightness, then press the dial.

 Darker picture \(\to \text{Bright} \) press the dial.

 (6) Press MENU to erase the menu display.



To deactivate AE shift

Set the bar indicator at the center in step 5, then press the control dial.

When you adjust AE shift The $\mathbf{8} - 4$ to $\mathbf{8} + 4$ indicator is displayed on the LCD screen or in the viewfinder. The number varies corresponding to the AE shift level.

oting with manual adjust

Adjusting gain shift

- (1) Set the POWER switch to CAMERA.

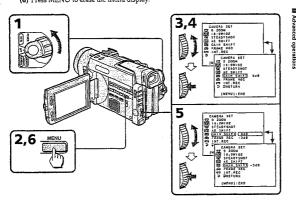
 (2) Press MENU to display the menu.

 (3) Turn the control dial to select (6d), then press the dial.

 (4) Turn the control dial to select (7d). SHIFT, then press the dial.

 (5) Turn the control dial to select -3dB, then press the dial.

 (6) Press MENU to erase the menu display.



To deactivate gain shift

Select 0dB in step 5, then press the control dial.

What is gain shift

When shooting in bright conditions, the gain shift function automatically adjusts the automatic exposure control's gain value to -3dB as much as possible. This helps you shoot pictures with less noises in a bright condition. In dark conditions, the unit operates as usual

When you adjust gain shift
The B indicator is displayed on the LCD screen or in the viewfinder.

Using the PROGRAM AE function

You can select from five PROGRAM AE (Auto Exposure) modes to suit your shooting situation, referring to the following.

Selecting the best mode

Select a proper PROGRAM AE mode referring to the following description.









A: Aperture priority mode

Selecting the aperture to determine the desired depth of field. Gain and the shutter speed are automatically set in combination with the aperture value to maintain appropriate exposure.

S: Shutter speed priority mode

Selecting the shutter speed manually. The exposure value changes in accordance with the selected shutter speed.

ኧ: Sports lesson mode Capturing high-speed action in sports such as golf or tennis

€: Sunset & Moon mode Recording sunset, night views, fireworks or neon signs

§ : Low lux mode For recording a subject in insufficient light. Subject becomes bright.

Notes on focus setting

- Notes on rocus setuing.

 In the Sports lesson mode, you cannot take close-ups because the camcorder is set to focus only on subjects in the middle to far distance.

 In the Surset & Moon mode, the camcorder is set to focus only on distant subjects.

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Using the PROGRAM AE function

Using the PROGRAM AE function

- (1) Set AUTO LOCK selector to the center (auto lock release) position while the camcorder is in Standby or Recording mode.
 (2) Press PROGRAM AE.
- (2) Press PROGRAM AE.
 Turn the control dial so that the symbol of the desired PROGRAM AE mode matches the indicator on the LCD screen or in the viewfinder. When you select the aperture priority mode or the shutter speed priority mode, press the control dial.
 In aperture priority mode (題 A) or shutter speed priority mode (題 S), turn the control dial to select the desired aperture value (F value) or shutter speed.
 Aberture priority mode:
- control dial to select the desired aperture value (it value) or shutter speed.

 Aperture priority mode:

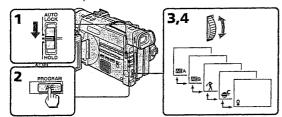
 Turn the control dial to select the desired aperture value. As you turn the dial, the F value changes between F1.6 and F11.

 For a smaller aperture, select a higher value. Gain and the shutter speed change in accordance with the selected aperture value.

Shutter speed priority mode:

Shutter speed priority mode: Turn the control dial to select the desired shutter speed. As you turn the dial, shutter speed changes between 1/60 and 1/10000 (DSR-PD100) or 1/50 and 1/10000 (DSR-PD100?). For a faster shutter speed, select a smaller value indicator on the LCD screen or in the viewfinder. The gain and aperture values change in accordance with the

selected shutter speed.



To return to automatic adjustment mode
Set AUTO LOCK selector to AUTO LOCK or press PROGRAM AE so that the indicator disappears.

When you focus in telephoto You cannot choose F1.6, F2 and F2.4.

Using the PROGRAM AE function

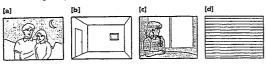
About the depth of field is the in-focus range, measured from the distance behind a subject to the distance in front. The depth of field can vary with the iris (F value) and the focal length. Lowering the F value (large iris) reduces the depth of field. Raising the F value (small iris) provides a larger depth of field. Zooming in telephoto position offers a smaller depth of fie wither the depth of field in wide-angle position is greater.

| The depth of field | Shallow | Deep |
|--------------------|--------------------|----------------------|
| Iris | Open (Low F value) | Close (High F value) |
| Zoom | Telephoto (T) | Wide (W) |

Focusing manually

When to use manual focus

In the following cases you should obtain better results by adjusting the focus manually.



- Insufficient light [a]

- Insufficient light [a]
 Subjects with little contrast walls, sky, etc. [b]
 Too much brightness behind the subject [c]
 Horizontal stripes [d]
 Subjects through frosted glass
 Subjects beyond nets, etc.
 Bright subject or subject reflecting light
 Shooting a stationary subject when using a tripod

PUSH AUTO

(2) Turn the focus ring to focus on the subject.

To focus in infinity
Slide FOCUS to INFINITY.

A indicator appears on the LCD screen or in the viewfinder.
This function is useful when the nearer subject is focused automatically, and you want to focus on a faraway subject.

Adjusting focus manually

When focusing manually, first focus in telephoto before recording, and then reset the shot

length.
(1) Slide FOCUS down to MANUAL. The 👁 indicator appears on the LCD screen or in the

To shoot with auto focusing momentarily
Press PUSH AUTO.
The auto focus functions while you are pressing PUSH AUTO.
Use this button to focus on one subject and then another with smooth focusing.
When you release PUSH AUTO, manual focusing resumes.

To return to the autofocus mode
Slide FOCUS up to AUTO to turn off r or indicator.

To shoot in relatively dark places or to shoot the subject moving quickly outside Shoot at wide-angle after focusing in the telephoto position.

If # lights up Subject is too close.

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Interval recording

You can make a time-lapse recording by setting the camcorder to automatically record and standby sequentially. You can achieve an excellent recording for flowering, emergence, etc., with this function.

(1) Set the POWER switch to CAMERA.

(2) Press MENU to display the menu.

(3) Turn the control dial to select to the press the dial.

(4) Turn the control dial to select SET, then press the dial.

(5) Turn the control dial to select SET, then press the dial.

(6) Set WAIT TIME and REC TIME.

① Turn the control dial to select WAIT TIME, then press the dial.

② Turn the control dial to select the desired waiting time, then press the dial.

The time: 30SEC ← JIMIN ← 50MIN ← 10MIN.

③ Turn the control dial to select REC TIME, then press the dial.

The time: 0.3SEC ← JISEC ← 1.5SEC ← 2.5EC.

③ Turn the control dial to select PRETURN, then press the dial.

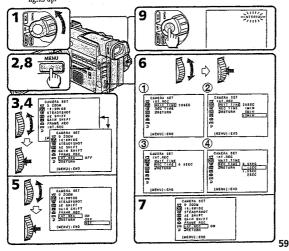
The time: 0.3SEC ← 1.5SEC ← 1.5SEC ← 2.5EC.

(7) Turn the control dial to select TIME, then press the dial.

(8) Press MENU to erase the menu display. The interval recording indicator flashes.

(9) Press STAKT/STOP to start interval recording. The interval recording indicator lights up.

- lights up.



Interval recording

To cancel the interval recording
• Set INT.REC to OFF in the menu system.
• Set the POWER switch to OFF, VTR or MEMORY.

To stop the interval recording momentarily and perform normal

recording
Press START/STOP. You can perform the normal recording only once. To cancel the normal recording, press START/STOP again.

During the interval recording mode The INTERVAL indicator appears.

- Notes on interval recording

 •You cannot do interval recording with photo recording.

 •You cannot perform interval recording in the MEMORY mode.

 •There may be a discrepancy in recording time of up to +/- 6 frames from the selected time.

Connecting the external microphone with the XLR connector

- When using the ECM-670 external microphone (not supplied), attach the CAC-12 microphone holder and supplied XIR adaptor.

 (1) Attach the XIR adaptor to the accessory shoe on the camcorder and tighten the screw of the XIR adaptor.

 (2) Attach the microphone holder with the supplied screws.

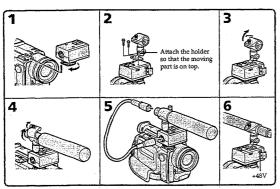
- (4) A MARCH THE THEOPHONE ROLLER WITH THE SUPPLIED SCREWS.

 (3) Loosen the microphone holder screw and open the cover.

 (4) Place the microphone into the holder, close the cover, and tighten the screw.

 (5) Connect the microphone to the MIC IN connector on the XLR adaptor, using a microphone cable (not supplied).

 (6) Set the +48V switch to ON.



- Notes

 When you use a wind screen other than the one supplied with ECM-670, make sure that
 the wind screen does not appear on the screen, using an underscan monitor.

 By setting the ATT switch to ON, you can reduce unnecessary noise by about 20 dB.
 When detaching the microphone cable, do so while holding the PUSH button down.

 When detaching the XLR adaptor, do so after having loosened the screw of the XLR
 adaptor.

Note on the wide conversion lens

When the wide conversion lens is attached to the camcorder, the Steady Shot function may not be fully effective.

Align the groove on the wide conversion lens hood with the protruding part on the wide conversion lens, then turn the ring in the direction of the arrow.

Attaching the wide conversion lens hood

To attach the wide conversion lens securely Turn the ring of the lens while lightly pressing the wide conversion lens down on the $\rm 100\,M_\odot$

Attaching the supplied wide conversion lens

Hold the camcorder with its lens pointing upward. Align the groove on the wide conversion lens with the protruding part on the camcorder lens, then turn the ring in the direction of the

Note on the wide conversion lens hood

When the hood is attached to the wide conversion lens, you cannot attach a filter, etc. If you need to use a filter, detach the hood before attaching the filter.

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Superimposing a title

If you use a tape with cassette memory, you can superimpose the titles while recording or after recording. When you play back the tape, the title is displayed for five seconds from the point where you superimposed it.

You can select from eight preset titles and two original (CUSTOM TITLE) to superimpose

Superimposing titles

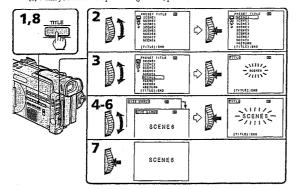
- (1) Press TITLE to display the title menu.
 (2) Turn the control dial to select □ then press the dial.
 (3) Turn the control dial to select the desired title, then press the dial. The titles are
- displayed.

 (4) Turn the control dial to select the color, size, or position, then press the dial.
- (5) Turn the control dala to select the desired item, then press the dial.

 (6) Repeat steps 4 and 5 until the title is arranged as desired.

 (7) Press the control dial again to complete the setting.

 (8) When you want to stop recording the title, press TITLE.



To superimpose the title from beginning After step 7, press START/STOP to start recording.

To superimpose the title while you are recording

After pressing START/STOP to start recording, start from step 1. In this case, beep or melody is not heard.

To use the custom title
When you want to use the custom title, select □ in step 2.

Superimposing a title

Notes on superimposing a title

- Notes on superimposing a true

 if you have not given any custom title, "----..." appears on the display.

 The FADER function works while the title is displayed, however, the title does not fade.

 If you display the menu or title menu while superimposing a title, the title is not recorde
 while the menu or title menu is being displayed.

Title color changes as follows: WHITE \longleftrightarrow YELLOW \longleftrightarrow VIOLET \longleftrightarrow RED \longleftrightarrow CYAN \longleftrightarrow GREEN \longleftrightarrow BLUE

Title size changes as follows: SMALL ←→ LARGE

Title position changes as follows:
When you select the title size "SMALL," you can choose 9 positions. When you select the title size "LARGE" you can choose 8 positions.

- Notes on the title

 Depending on size or position of the title, both of date and time or either of them is not displayed.
- displayed.

 If you input 13 characters or more for a LARGE title, the title is automatically reduced into a SMALL size after the position is set.

 When the title is displayed, LCD BRIGHT and microphone level indicators do not appear.

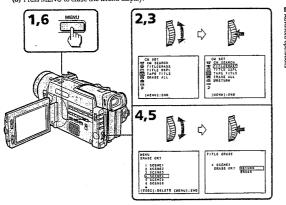
 Normally, you can register up to 20 titles, each of which consists of about 5 characters, in the cassette memory. In case the cassette memory has aiready stored dates, photo data, and a cassette label to its full capacity, you can register up to 1 titles in it. A cassette can store up to 6 dates, 12 photo data, and one cassette label in its memory.

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Superimposing a title

Erasing a title

- (1) Press MENU to display the menu.
 (2) Turn the control dial to select SIII, then press the dial.
 (3) Turn the control dial to select TITLEERASE, then press the dial.
 (4) Turn the control dial to select the title you want to erase, then press the dial.
 (5) Make sure the title is the one you want to erase, then press the control dial again.
- (6) Press MENU to erase the menu display.



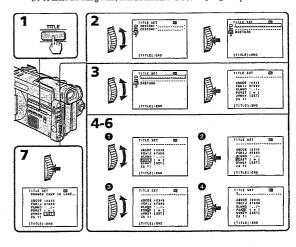
NOTE
If you use a cassette tape set to prevent accidental erasure, you cannot erase the title. Slide the protect tab so that the red portion is not visible.

Making a custom title

If you use a tape with cassette memory, you can make up to two titles and store them in the camcorder. We recommend you to set the POWER switch to VTR or eject the cassette before

- cancorrer. We recomment you was that 10 Habitan and 10 Habitan and
- then press the dial.

 (4) Turn the control dial to select the column of the desired character, then press the
- dial.
 (5) Turn the control dial to select the desired character, then press the dial.
- (6) Repeat steps 4 and 5 until you finish the title.
 (7) To finish the titling work, turn the control dial to select [SET], then press the dial.



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Making a custom title

To edit a title you have stored In step 3, select CUSTOM1 or CUSTOM2, depending on which title you want to edit, then change the title.

If you take 5 minutes or longer to enter characters while a cassette is in the camcor The power goes off automatically. Characters you have entered remain. Set the POWER switch to OFF once, then to CAMERA, then proceed from step 1.

To erase a character
In step 4, turn the control dial to select [6] then press the dial. The last character is erased.
Repeat this step until all characters are deleted.

Labeling a cassette

If you use a hape with cassette memory, you can label a cassette. The label can consist of up to 10 characters and is stored in cassette memory. When you insert the labeled cassette and turn the power on, the label is displayed on the LCD screen, in the viewfinder, or on the TV screen.

(1) Insert the cassette you want to label.

(2) Set the POWER switch to VTR.

(3) Press MENU to display the menu.

(4) Turn the control dial to select Tayle TiTLE, then press the dial.

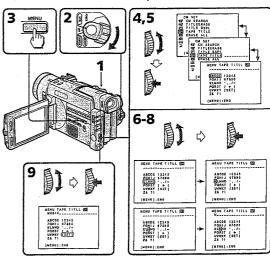
(5) Turn the control dial to select Tayle TiTLE, then press the dial.

- dial.

 (7) Turn the control dial to select the desired character, then press the dial.

 (8) Repeat steps 6 and 7 until you finish the label.

 (9) Turn the control dial to select [SET], then press the dial.



Labeling a cassette

To erase a character
In step 6 turn the control dial to select [+], then press the dial. The last character is erased.

To change the label you have made

ssette to change the label, and operate in the same way to make a new label.

If the \mbox{GU} mark appears in step 5 The cassette memory is full. If you erase the title in the cassette, you can label it.

If you have superimposed titles in the cassette When the label is displayed, up to 4 titles also appear.

Note on "----" indicator displayed on the LCD screen or in the viewfinder The "----" indicates the number of characters you can select for the label. When the indicator has fewer than 10 spaces, the cassette memory is full.

Note on the cassettes

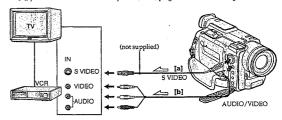
If you use a cassette tape set to prevent accidental erasure, you cannot label it. Slide the protect tab so that the red portion is not visible.

Watching on a TV screen

Connect the camcorder to your TV or VCR to watch the playback picture on the TV screen. When monitoring the playback picture by connecting the camcorder to your TV, we recommend you to use house current (mains) for the power source.

Connecting directly to a TV or VCR with Audio/Video input jacks

Open the jack cover and connect the camcorder to the inputs on the TV by using the supplied A/V connecting cable. Set the TV/VCR selector on the TV to VCR. Turn down the volume of the camcorder. To get higher quality pictures in DVCAM format, connect the camcorder to your TV using the S video connecting cable (not supplied). If you are going to connect the camcorder using the S video connecting cable (not supplied) [a], you do not need to connect the yellow (video) plug of the A/V connecting cable [b].



: Signal flow

If your VCR or TV is a monaural type Connect only the white plug for audio on both the camcorder and the VCR or the TV. If you connect the white plug, the sound is L (left) signal. If you connect the red plug, the sound is R (right) signal.

When you adjust the TV screen Set COLOR BAR (COLOUR BAR) to ON in the menu system. The color bar is displayed on the TV screen $^{\circ}$

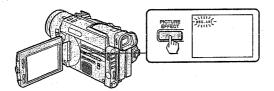
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Viewing the picture with the picture effect

You can play back recorded images with the picture effect. The available picture effects are NEG. ART, SEPIA, B&W and SOLARIZE.

During playback, press PICTURE EFFECT. See page 40 for details on the picture effect.



To return to normal mode
Press PICTURE EFFECT so that the indicator disappears

if you turn the power off or stop playing back The picture effect is automatically canceled.

The picture you apply picture effects to The picture with the picture effect is not output through the $\frac{1}{6}$ DV IN/OUT jack

Viewing the picture with the digital effect

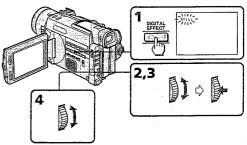
You can play back recorded images with the digital effect. The available digital effects are STILL, FLASH, LUMI. and TRAIL. (1) During playback, press DIGITAL EFFECT.

(2) Turn the control dial to select the desired digital effect mode.

(3) Press the control dial. The digital effect indicator lights up and the bars appear. The still picture is stored in memory in the STILL or LUMI. mode.

(4) Turn the control dial to adjust the effects.

See page 42 for details on the digital effect.



To return to normal mode

Press DIGITAL EFFECT so that the indicator disappears.

If you turn the power off or stop playing back. The digital effect is automatically canceled.

The picture you apply digital effects to The picture with the digital effect is not output through the $\frac{1}{8}$ DV IN/OUT jack.

Searching the boundaries of recorded tape with date—date search

You can search for the boundaries of recorded tape with date – Date Search function. To search the beginning of the specific date and play back from the point, there are two ways:

• Using cassette memory, you can select the date displayed on the LCD screen.

• Without using cassette memory.

You can only operate with the Remote Commander.

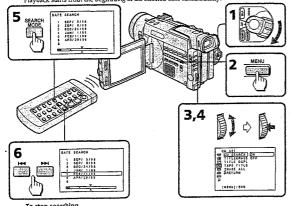
Searching for the date by using cassette memory

You can use this function only when playing back a tape with cassette memory (p. 116).
(1) Set the POWER switch to VTR.
(2) Press MENU to display the menu.
(3) Turn the control dial to select CM SEARCH in (1), then press the dial.

(4) Turn the control dial to select ON, then press the dial.
(5) Press SEARCH MODE on the Remote Commander repeatedly, until the date search indicator appears.

(6) Press I◄ or ►► to select the date for playback.

Playback starts from the beginning of the selected date autor



To stop searching Press 麗.

Notes

• The interval of the boundaries between the dates needs more than two minutes. The camcorder may not search if the beginning of the recorded date is too close to the next one.

• The black cursor on the screen indicates the date that was selected previously.

• If a tape has a blank portion in the beginning or between recorded portions, the date search function will not work correctly.

• Up to six date data can be stored in a cassette memory.

Searching the boundaries of recorded tape with date – date search

Searching for the date without using cassette memory

If you use the tape without cassette memory, skip steps 3 and 4.

(1) Set the POWER switch to VTR.

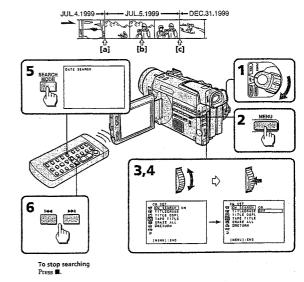
(2) Press MENU to display the menu.

(3) Turn the control dial to select CM SEARCH in (1), then press the dial.

(4) Turn the control dial to select OFF, then press the dial.

(5) Press SEARCH MODE on the Remote Commander repeatedly, until the date search indicate appears.

(5) Press SEARCH WIGHER ON the Remote Community Press Feel indicator appears.
(6) When the current position is [b], press I◄ to search towards [a] or press F►I to search towards [c]. Each time you press I◄ or F►I, the camcorder searches for the previous or next date.
Playback starts automatically when date changed.



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Searching the boundaries of recorded tape with title – title search

You can search for the boundaries of recorded tape with title – Title Search function. If you use a tape with cassette memory, you can select the title displayed on the LCD screen.

You can only operate with the Remote Commander.

Searching for the title by using cassette memory

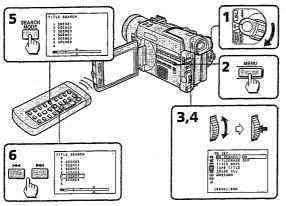
You can use this function only when playing back a tape with cassette memory (p. 116).

(1) Set the POWER switch to VTR.

indicator appears.

(6) Press I←← or ➤➤I to select the title for playback.

Playback starts from the scene of the selected title automatically.



You cannot superimpose or search a title, if you use a cassette tape without cassette

memory.

• The camcorder may not search, if a tape has a blank portion in the between of the recorded 75

Searching for a photo – photo search/photo scan

You can search for the recorded still picture - Photo Search function. There are two modes in

Figure 2 date which is displayed on the LCD screen.

Without using cassette memory.

You can also search for still pictures one after another and display each picture for five seconds automatically – Photo Scan function. Even if your tape has no cassette memory, you

can use the Photo Scan function. You can only operate with the Remote Commander.

Searching for a photo by using cassette memory – photo search

You can use this function only when playing back a tape with cassette memory (p. 116).

(1) Set the POWER switch to VTR.

You can use this function only when playing back a tape with cassette memory (p. 116).

(1) Set the POWER switch to VTR.

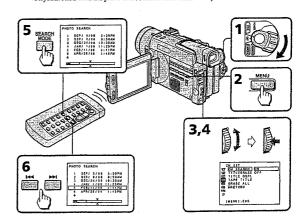
(2) Press MENU to display the menu.

(3) Turn the control dial to select CM SEARCH in (30), then press the dial.

(4) Turn the control dial to select ON, then press the dial.

(5) Press SEARCH MODE on the Remote Commander repeatedly, until the photo

(6) Press idea or b→i to select the date for playback.
Playback starts from the photo of the selected date automatically.



Searching for a photo-photo search/photo/scarr

To stop searching

Note
When you play back a tape which has a blank portion in the between of the recorded portions, the photo search function may not work correctly.

Searching for a photo without using cassette memory - photo search

If you use a tape without cassette memory, skip the steps 3 and 4.

(1) Set the POWER switch to VTR.

(2) Press MENU to display the menu.

(3) Turn the control dial to select CM SEARCH in to the press the dial.

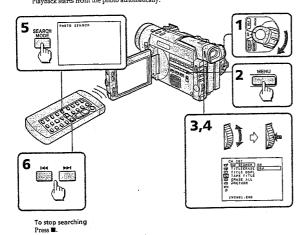
(4) Turn the control dial to select OFF, then press the dial.

(5) Press SEARCH MODE on the Remote Commander repeatedly, until the photo search indicator appears

(5) Press SANKET mode on the tended contained represent indicator appears.

(6) Press ◄◄ or ▶►! to select the photo for playback. Each time you press !◄◄ or ▶►!, the camcorder searches for the previous or next scene.

Playback starts from the photo automatically.



Scanning photo – photo scan

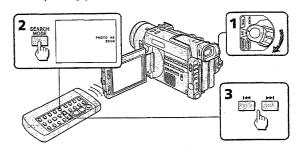
You can use this function whether the tape has cassette memory or not.

(1) Set the POWER switch to VTR.

(2) Press SEARCH MODE on the Remote Commander repeatedly until the photo scan indicator displayed on the LCD screen.

(3) Press I◀ or ▶▶1.

Each photo is displayed for about 5 seconds automatically.



To stop scanning Press .

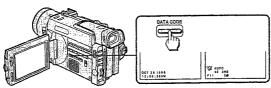
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Displaying recording data – data code function

You can display recording data (date/time or various settings when recorded) on the LCD screen or in the viewfinder during playback (Data Code). The Data Code is also displayed on the TV.

Press DATA CODE during playback.



To select the items to be displayed

Set DATA CODE in the menu system, and select the following items:

When DATE/CAM is selected: date → various settings (SteadyShot OFF, PROGRAM AE, shutter speed, white balance, aperture value, gain) → no indicator.

When DATE is selected: date → no indicator.

When you record a picture with adjusting the exposure to the darkest manually "CLOSE" appears at the position of the iris indicator on the LCD screen or in the view ewfinder.

When bars (----) appear

• A blank portion of the tape is being played back.

• The tape was recorded by a canncorder without having date and time set.

• The tape is unreadable due to tape damage or noise.

Note

The pictures taken with the memory card slot is not recorded with the camera data.

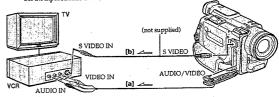
Editing onto another tape

You can create your own video program by editing with any other [BVCAM], DVCAM, DV DV, "MY min DV, BI 8 mm, HIB HIS, (BIS VHS, SIBIS S-VHS, WISE VHSC, SIBIS S-VHSC, BIS Beatmax or SIBIS BLOOK SIBIS S-VHSC, BIS Beatmax or SIBIS BLOOK SIBIS S-VHSC, BIS Beatmax or SIBIS S-VHSC, BIS Beatmax S-VHSC, BIS BEA

Before editing

Connect the camcorder to the VCR using the supplied A/V connecting cable or the VMC-IL4415/IL4435/2DV/4DV i.LiNK cable (DV connecting cable) (not supplied).

Using the A/V connecting cable [a] or 5 video connecting cable (not supplied) [b]
Set the input selector on the VCR to LINE.



Signal flow

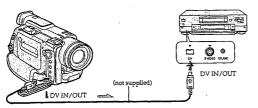
Notes on editing when using the A/V connecting cable

• Press DATA CODE, SEARCH MODE on the Remote Commander, or DISPLAY to turn off
the display indicators. Otherwise, the indicators will be recorded on the lape.

• If your TV or VCR is a monaural type, connect the yellow plug of the A/V connecting
cable for video to the TV or VCR. Connect only the white or red plug for audio to the TV or
VCR. If you connect the white plug, the sound is L (left) signal. If you connect the red plug,
the sound is R (right) signal.

• You can edit precisely by connecting a LANC cable to this camcorder and other video
equipment having fine synchro-editing function, using this camcorder as a player.

Using the i.LINK cable (DV connecting cable)
Simply connect the VMC-ILA415/ILA435/2DV/ADV i.LINK cable (DV connecting cable)
for supplied to § DV IN/OUT and to DV IN/OUT of the DV products. With digital-todigital connection, video and audio signals are transmitted in digital form for high-quality



: Signal flow

Notes on editing when using the i.LINK cable (DV connecting cable)

• You can record picture, sound and system data at the same time on the DV products by using the i.LINK cable (DV connecting cable) only.

• You cannot edit the titles, display indicator or the contents of cassette memory.

• If you record playback pause picture with the § DV IN/OUT jack, the recorded picture becomes rough. And when you play back the picture using the other video equipment, to picture may jitter.

• You can also use the camcorder as a recorder with this connection. In this case "DV IN" indicator appears on the screen.

• When you use the camcorder as a recorder, the color balance may be incorrect on the monitor screen. But this is not recorded on the tape.

To perform a more precise editing
Use DV synchro-editing function (see page 82).

Starting editing

(1) Insert a blank tape (or a tape you want to record over) into the VCR, and insert your recorded tape into the camcorder.

(2) Play back the recorded tape on the camcorder until you locate the point where you want to stair editing, then press II to set the camcorder in playback pause mode.

(3) On the VCR, locate the recording start point and set the VCR in recording pause mode.

(4) Press II on the camcorder and VCR simultaneously to start editing.

To edit more scenes

To stop editing
Press
on both the camcorder and the VCR.

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Editing partially on a mini DVCAM tape - DV synchro-editing

Notes

• If you use other than Sony DVCAM equipment, the synchronization may become less precise or the unit may not function properly.

• You cannot set DV EDITING IN or OUT on a blank portion of the tape.

Errors in **auplicating**If you connect this camcorder to Sony equipment with DV jack, the range of errors is within +/-5 frames. The range may become wider in the following conditions.

The interval between DV EDITING IN and OUT is less than five seconds.

DV EDITING IN is set at the beginning of the tape.

DV synchro-editing is performed repeatedly.

If you do not make connections with i.LINK cable (DV connecting cable) The screen shows NOT READY, and you cannot select DV EDITING.

Editing partially on a mini DVCAM tape – DV synchro-editing

By simply selecting the scenes to edit, you can duplicate the desired portion on a tape, using other equipment connected with an iLINK cable (DV connecting cable). The scenes can be selected by frame. Since the camcorder exchanges digital signals, you can edit with little audio and video deterioration. You cannot duplicate titles, display indicators or the contents of cassette memory. The connection is the same as on page 81.

(1) Insert a recorded tape into the camcorder and insert a blank tape into the DVCAM product.

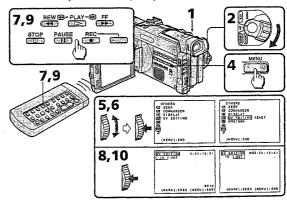
product.
(2) Set the POWER switch of the camcorder to VTR.

1.2) set the PUWLIK switch of the camcorder to VIR.
1.3 Set the input selector to DV input on the DVCAM product. If the DVCAM product is another DVCAM camcorder, set its POWER switch to VIR.
1.4 Press MENU to display the menu.
1.5 Turn the control dial to select Eig. then press the dial.
1.6 Turn the control dial to select DV EDITING, then press the dial.
1.7 Lising the tame transport buttons locate the noint where you want to start editing.

Using the tape transport buttons, locate the point where you want to start editing, then press 11 to set the camcorder in playback pause mode.

Press the control dial or MARK on the Remote Commander to set DV EDITING

IN.
(9) Using the tape transport buttons, locate the point where you want to end editing, then press II to set the camcorder in playback pause mode.
(10) Press the control dial or MARK on the Remote Commander to set DV EDITING OUT. The editing process starts. When the process ends, the camcorder and the DVCAM product automatically set to pause mode.



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Recording from a VCR or TV

You can record a tape from another VCR or a TV program from a TV that has audio/video outputs. Connect the camcorder to the VCR or TV.

(1) Set the POWER switch to VTR and set DISPLAY to LCD in the menu system.

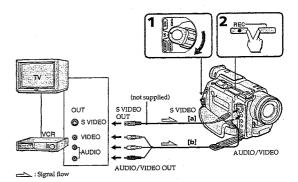
(2) Press ● REC and the button on the right together at the point where you want to

start recording.

In recording and the recording pause mode, S VIDEO and AUDIO/VIDEO jacks automatically work as input jacks.

If your VCR or TV has an S video jack, connect using the S video cable (not supplied) [a] to

obtain a high quality picture.



If your TV or VCR is a monaural type, connect the yellow plug of the A/V connecting cable for video to the TV or VCR. Connect only the white or red plug for audio to the TV or VCR. If you connect the white plug, the sound is L (left) signal. If you connect the red plug, the sound is R (right) signal.

If you are going to connect the camcorder using the S video cable (not supplied) [a], you do not need to connect the yellow (video) plug of the A/V connecting cable [b] .

Notes

• If the S video plug is not provided on your TV or VCR, do not connect the S video cable (not supplied) to the camcorder. Pictures will not appear.

• The dual sound cannot be recorded in this camcorder.

• If you fast-forward or slow-playback on the other equipment, the image being recorded may turn black and white. When recording from other equipment, be sure to play back the original tape at normal speed.

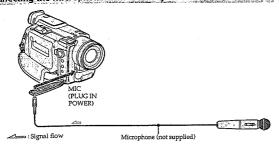
To stop recording

Audio dubbing

You can record an audio sound to add to the original sound on a tape by connecting audio equipment or a microphone. If you connect the audio equipment, you can add sound to yor recorded tape by specifying the starting and ending points. The original sound will not be

erased. You can only operate with the Remote Commander.

Connecting the microphone with the MIC Jack



You can check the recorded picture and sound by connecting the AUDIO/VIDEO jack to a TV.

The recorded sound is not output from a speaker. Check the sound by using the TV or

Connecting the microphone with the intelligent accessory shoe using the XLR adaptor

Connection is the same as shown in p. 61.



You can check the recorded picture and sound by connecting the AUDIO/VIDEO jack to a TV.

1 v.
The recorded sound is not output from a speaker. Check the sound by using the TV or

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To play back the new recorded sound Adjust the balance between the original sound (ST1) and the new sound (ST2) by selecting AUDIO MIX in the menu system.



Five minutes after when you disconnect the power source or remove the battery pack, the setting of AUDIO MIX returns to the original sound (STI) only. The factory setting is original sound only.

If you make all the connections

II you make an the connections
The audio input to be recorded will take precedence over others in the following order

• MIC (PLUG IN POWER) jack

Intelligent accessory shoe
 AUDIO/VIDEO jack
 Built-in microphone

If an i.LINK cable (DV connecting cable) is connected to this unit You cannot add a sound to a recorded tape.

If you disconnect or connect a cable to the camcorder during recording The recording may stop.

Notes on audio dubbing

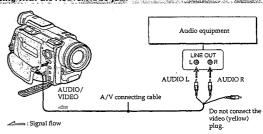
• A new sound cannot be recorded on a tape already recorded in the FS48K (16-bit) mode kHz, 441 kHz or 48 kHz).

• When an external microphone is not connected, the recording will be made through the built-in microphone of the camcorder.

• If you add a new sound on a tape recorded with another camcorder (including DSR-PD100/PD100P), the sound quality may become worse. recorded on a tape already recorded in the FS48K (16-bit) mode (32

You cannot add audio with the BDV IN/OUT jack.

Dubbing with the AUDIO/VIDEO jack



The picture is not output from the AUDIO/VIDEO jack. Check the recorded picture on the LCD screen or in the viewfinder, as well as check the recorded sound by using a speaker or

Dubbing with the built-in microphones

No connection is necessary.

Adding an audio sound on a recorded tape

(1) Insert your recorded tape into the camcorder. (2) Set the POWER switch to VTR.

(3) On the camcorder, locate the point where the recording should begin by pressing

→ or

→. Then press II to set it to playback pause mode.

(4) Press AUDIO DUB on the Remote Commander.

(5) Press II on the Remote Commander and at the same time start playing back the audio

(6) Press ■ on the Remote Commander at the point where you want to stop recording.

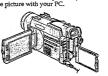
Memory card slot operations

Using the memory card slot — introduction

This camcorder is equipped with a memory card slot that conforms to ATA specification of PC Card standard.

You can record still images to memory sticks using the supplied PC card adaptor or to PC cards (not supplied). You can exchange image data with other equipment such as personal computers etc., using memory sticks or PC cards.

Image Record the still image on memory stick with the PC card adaptor. Play back the picture with your PC.

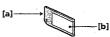




About memory stick and PC card adaptor
The memory stick is a brand new type of recording medium that records images and sounds as digital data and operates just like a PC card.

Memory Stick is the registered trademark of Sony Corporation.

Precautions



- Do not touch the terminal of the memory stick [a] by your hand or a metal object.
 Do not attach any other material than the supplied label on the label space of the memory stick [b].
- stick [b].

 Keep dust or extraneous matter out of the connector and memory stick slot of the PC card adaptor.

 Do not strike, bend, or drop the memory stick or PC card adaptor.

 Do not strike hend, or drop the memory stick or PC card adaptor.

 Do not wet the memory stick or PC card adaptor.

 Do not wet or store the memory stick or PC card adaptor in the following areas:

 Hot locations such as the inside of a car or the outdoors under hot weather.

- Locations exposed to direct sunlight.
 Humid or corrosive locations.
 Carry or store the memory stick or PC card adaptor in its supplied case.

For proper operation

Setting the write-protect switch to "LOCK" disables you to record or delete data.

We recommend that you make a backup copy of important data.

Do not remove the memory stick while reading or writing data.

Recorded data may be lost or damaged in the following situations:

When you remove the memory stick or PC card adaptor or turn off the camcorder while reading or writing data.

When you use the memory stick or PC card adaptor in the locations subject to static electricity or electrical noise.

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Using the memory card slot — introduction

Data file names of image Example: MVC00001.jpg

On file format (JPEG)
This unit compresses image data in JPEG format (extension .jpg) and simultaneously records thumbnail data for the index screen. The index screen data is varies only on this unit.

The types of PC cards you can use

Use TYPE II PC cards that conform to ATA specification of PC card standard. Format the PC card with this camcorder before use. Once you format the PC card, you can store data of up to 64 MB in it.

Compatible PC cards
HITACHI
HB286008A3, HB286015A3, HB286030A3, HB286045A3, HB286060A3
SANDISK
SDP3B-2-101-00, SDP3B-4-101-00, SDP3B-6-101-00, SDP3B-8-101-00, SDP3B-10-101-00, SDP3B-20-101-00, SDP3B-40-101-00
Be sure to refer to the instruction manual supplied with the PC card.

About the power source
When you use the memory card slot, getting the power from a wall outlet is recommusing the AC power adaptor.

About the remaining battery indicator
This camcorder displays remaining recording/playback time on the LCD screen or in the viewfinder. This function may not work properly in certain operating conditions. Especial when using the memory card slot, the correct remaining time may not be indicated due to increased power consumption. This is not a malfunction.

Power supply
When using a video light (not supplied) or similar equipment connected to the intelligent
accessory shoe of the camcorder, recording an image to a memory stick or PC card may
result in a temporary power shortage in the accessory shoe, causing the video light to go out.
This does not affect other functions.

When using a battery case
When using a battery case (not supplied) such as the EBP-L7, you cannot perform operations
that require the PC card adaptor. The screen displays "FOR "InfoLITHIUM" BATTERY
ONLY."

Note on playback compatibility

This camcorder is not guaranteed to properly play back images shot with other equipment. The images shot with this camcorder are not guaranteed to be played back properly with other equipment.

CAUTIONDo not insert your finger or an object into the memory card slot.

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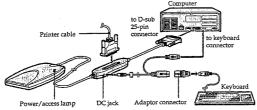
Using the memory card slot –introduction

When the PC card adaptor or PC card does not come out Remove the battery before ejecting the PC card adaptor/PC card.

Connecting the PC card/parallel port adaptor with your computer

To display images recorded on the memory stick or PC card on the computer monitor, connect the PC card/parallel port adaptor with your computer. Turn off your computer, and then connect the parallel port adaptor with your computer as illustrated below.

Install the MSAC-PR1 device driver into your computer from the supplied CD-ROM. For details, refer to "READ ME" on the CD-ROM.



To eject the PC card/PC card adaptor Press the eject button.

- Notes on the connection

 Select the one from the two DIN connectors that matches the keyboard connector of the computer, and use this connector to connect the computer.

 When connecting the PC card/parallel port adaptor and the keyboard, make sure sizes of the DIN connector of the keyboard and power cord match, then use the adaptor connector
- For notebook computers, there is no need to connect the keyboard.

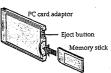
Note on the power/access lamp
Do not insert/remove the PC card adaptor or memory stick when the power/access lamp is
flashing; otherwise data on the memory stick or PC card may become damaged.

Using the memory card slot —introduction

Inserting a memory stick into PC card adaptor

Insert a memory stick with its connector side facing down.

Before inserting, check that the write protect switch is not set to LOCK position for recording a still picture.



To eject the memory stick

Inserting the PC card adaptor or PC card

With the upper side of the connector facing the LCD panel, insert the PC card adaptor or PC card until it clicks.



To eject the PC card adaptor or PC card Slide the MEMORY RELEASE lever in the direction of the arrow as illustrated below.



When the access lamp is flashing Never shake or strike the unit. Do not turn the power off , eject a PC card adaptor/PC card or remove the battery pack. Otherwise, the image data breakdown may occur.

Using the memory card slot – introduction

Selecting the image quality mode

You can select one of three image quality modes in still picture recording. If you do not make any selection, the unit automatically records in SUPER FINE mode. (1) Set the POWER switch to MEMORY. Make sure that the lock knob is set to the right

- (1) Set the POWEK switch to MEMONY. Make sure that the BOOK KHOOLD SEC (unlock) position.

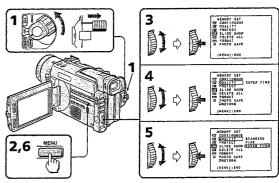
 (2) Press MENU to display the menu.

 (3) Turn the control dial to select 日, then press the dial.

 (4) Turn the control dial to select QUALITY, then press the dial.

 (5) Turn the control dial to select desired image quality, then press the dial.

 (6) Press MENU to erase the menu display.



| Setting image quanty | | |
|----------------------|---|--|
| Setting | Meaning | |
| SUPER FINE (SFN) | This is the highest image quality in this camcorder. The number of still images you can record is less than FINE. The image is compressed to about 1/4. | |
| FINE (FIN) | Use this mode when you want to record high quality images. The image is compressed to about 1/6. | |
| STANDARD (STD) | This is the standard image quality. The image is compressed to about 1/10. | |

Using the memory card slot – introduction

The difference in image quality mode

A recorded image is compressed in JPEG format before stored into memory. The memory capacity allotted to each image varies depending on the selected quality mode. Details are shown in the table below. (The number of pixel is 640 x 84) regardless of image quality mode. Data volume before compression is about 600 KB.)

| image quality mode | Memory capacity | |
|--------------------|-----------------|--|
| SUPER FINE | About 150 KB | |
| FINE | About 100 KB | |
| STANDARD | About 60 KB | |

Approximate numbers of images you can record on a memory stick (4 MB) The number of images you can record is different depending on which image q you select and the complexity of the subject. SUPER FINE (SFN) about 20 to 22 images FINE (FIN) about 39 to 44 images STANDARD (STD) about 66 to 75 images

Note In some cases, changing image quality mode may not affect the image quality, depending on the types of images you are shooting.

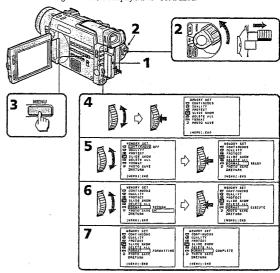
mory card slot – introduction

Formatting (initializing) a memory stick or a PC card

- (1) When you format a memory stick, insert a PC card adaptor (with a memory stick inside) into the memory card slot. When you format a PC card, insert the card into the memory card slot.

 (2) Set the POWER switch to MEMORY. Make sure that the lock knob is set to the right

- (a) Set the FVWER switch to MEMORY. Make sure that the lock knob is set to the r (unlock) position.
 (3) Press MENU to display the menu.
 (4) Turn the control dial to select EORMAT, then press the dial.
 (5) Turn the control dial again to select FOK, then press the dial. The display shows "EXECUTE," then press the dial again.
 (7) The display shows "FORMATTING," and formatting procedure begins. When formatting is finished, the display shows "COMPLETE."



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Using the memory card slot —introduction

- Notes on formatting

 Formatting erases all information on the memory stick or PC card, including the protected image data. Check the contents of the memory stick or PC card before formatting.

 Be sure that the battery is fully charged when formatting a memory stick or PC card. Formatting takes about three minutes maximum.

 Do not turn the POWER switch or press any button while the display shows "FORMATTING."

Recording an image from a mini DVCAM tape as a still image

This camcorder can read moving picture data recorded on a mini DVCAM tape and record it as a still image on a memory stick or a PC card. The unit can also take in moving picture data through the input connector and record it as a still image on a memory stick or a PC card.

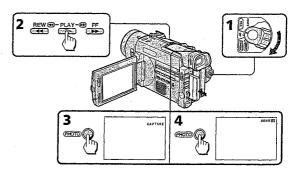
Before operation

- Insert a recorded mini DVCAM tape.
 Insert the PC card adaptor (with a memory stick inside) or a PC card into the unit.
- (1) Set the POWER switch to VTR.
- (2) Press P. The picture recorded on the mini DVCAM tape is played back.

 (3) Keep pressing PHOTO lightly until a picture from the mini DVCAM tape freezes.

 "CAPTURE" appears on the LCD screen or in the viewfinder. Recording does not
- start yet.

 (4) Press PHOTO deeper. The image displayed on the screen will be recorded on a memory stick or a PC card. The recording is complete when the bar scroll indicator disappears.



When the access lamp is flashing
Never shake or strike the unit. As well do not turn the power off, eject a PC card adaptor/PC
card or remove the battery pack. Otherwise, the image data breakdown may occur.

card

ecording an image from a mini DVCAM tape as a still in

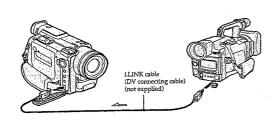
Recording a still image from a mini DVCAM tape right after turning on the power Saving the data may take a little more time than usual. This is not a malfunction.

Sound recorded on a mini DVCAM tape
You cannot record the audio from a mini DVCAM tape.

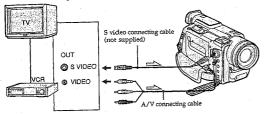
About titles recorded on the mini DVCAM tape
You cannot record titles. The title is not displayed during recording.

Recording a still image from other equipment

When recording the image through the B DV IN/OUT jack



rding the image through the AUDIO/VIDEO jack



- Set the POWER switch to VTR and set DISPLAY to LCD in the menu system.
 Play back the recorded tape, or turn the TV on to see the desired program.
 Follow the steps 3 and 4 on page 96.

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Copying still images from a mini DVCAM tape – photo save

When the access lamp is flashing Never shake or strike the unit. As well do not turn the power off, eject a PC card adaptor/PC card or remove the battery pack. Otherwise, the image data breakdown may occur.

To record all the images recorded on the mini DVCAM tape Rewind the tape all the way and start copying.

When you change memory sticks in the middle of copying
The unit resumes copying from the last image recorded on the previous memory stick.

Memory card slot operation:

Copying still images from a mini DVCAM tape – photo save

Using the search function, you can automatically take in only the still images from mini DVCAM tapes and record them on a memory stick or a PC card in sequence.

Before operation
• Insert a recorded mini DVCAM tape and rewind the tape.
• Insert the PC card adaptor (with a memory stick inside) or a PC card to the unit.

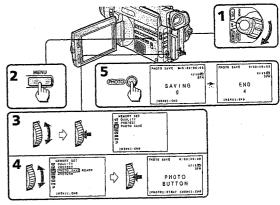
- (1) Set the POWER switch to VTR.

 (2) Press MENU to display the menu.

 (3) Turn the control dial to select [], then press the dial.

 (4) Turn the control dial to select PHOTO SAVE, then press the dial. "PHOTO BUTTON" appears on the LCD screen or in the viewfinder.

 (5) Press PHOTO deeper. The still image from the mini DVCAM tape is recorded on a memory stick or PC card. The number of still images copied is displayed. "END" is displayed when copying is completed.



To cancel copying Press MENU to stop copy

When the memory of the memory stick or PC card is full "MEMORY FULL" appears on the screen, and the copying stops. Insert anothe, stick or PC card and repeat the procedure from step 1.

Recording still images on memory sticks or PC cards – memory photo recording

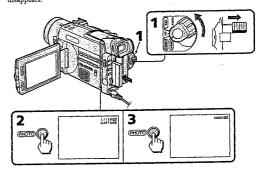
You can record still images with all the pixels (progressive) on a memory stick or an optional PC card.

Before operation
Insert the PC card adaptor (with a memory stick inside) or a PC card to the unit.

- (1) Set the POWER switch to MEMORY. Make sure that the lock knob is set to the
- (1) Set the POWER switch to MEMORY. Make sure that the lock knob is set to the right (unlock) position.

 (2) Keep pressing PHOTO lightly. A picture freezes and "CAPTURE" appears on the LCD screen or in the viewfinder. Recording does not start yet.

 (3) Press PHOTO deeper. The image displayed on the screen will be recorded on a memory stick or PC card. The recording is complete when the bar scroll indicator disappears.



When the POWER switch is set to MEMORY

The following functions do not work: digital zoom (more than 12x), wide TV mode, digital effect, picture effect, title.

When you are recording a still image You can neither turn off the power nor press PHOTO.

When you press the PHOTO button on the Remote Commander The camcorder immediately records the image that is on the screen when you press the

When using a video light (not supplied) or similar equip intelligent accessory shoe

intelligent accessory snoe
Recording an image on a memory stick or PC card may result in a temporary power
shortage in the accessory shoe, causing the video light to go out. This is not a malfunction.

Recording still images on memory sticks or PC cards —memory photo recording

Recording images continuously

You can shoot continuously by selecting one of two modes described below

Continuous mode [a] You can record from 2 to 4 pictures continuously.

Multi screen mode [b]
You can record 9 still pictures continuously on a single page.





Note on the video flash light You cannot use the video flash light (not supplied) during continuous or multi screen mode

Recording still images on memory sticks or PC cards —memory photo recording

- (1) Set the POWER switch to MEMORY. Make sure that the lock knob is set to the right (1) Set the POWER switch to MIDMOURT. Make sure that the ACA MIDD (unlock) position.

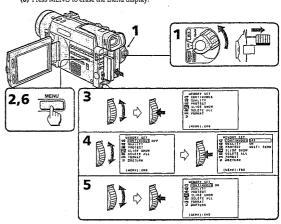
 (2) Press MENU to display the menu.

 (3) Turn the control dial to select EQ, then press the dial.

 (4) Turn the control dial to select CONTINUOUS, then press the dial.

 (5) Turn the control dial to select the desired setting, then press the dial.

- (6) Press MENU to erase the menu display.



Settings of continuous shooting

| Setting | Meaning (indicator on the screen) |
|------------|--|
| OFF | The unit shoots one image at a time. (no indicator) |
| ON | The unit shoots 2 to 4 still images at about 0.8 sec intervals. (🚱) |
| MULTI SCRN | The unit shoots 9 still images at about 0.3 sec intervals and displays the images on a single page divided into 9 boxes. (国) |

The number of images in continuous shooting
The number of images you can shoot continuously varies depending on the image quality
mode.

mode.
SUPER FINE: 2 images
FINE: 3 images
STANDARD: 4 images

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Viewing a still picture – memory photo playback

You can play back still images recorded on a memory stick or PC card. You can also play back 6 images at a time by selecting the index screen.

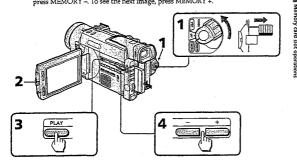
Before operation
Insert the PC card adaptor (with a memory stick inside) or a PC card to the unit.

- (1) Set the POWER switch to MEMORY. Make sure that the lock knob is set to the right (unlock) position.

 (2) While pressing OPEN, open the LCD panel.

 (3) Press MEMORY PLAY. The last recorded image is displayed.

 (4) Press MEMORY +/- to select the desired still image. To see the previous image, press MEMORY -. To see the next image, press MEMORY +.

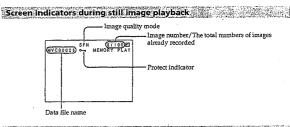


To stop memory photo playback
Press MEMORY PLAY again. Otherwise, the image through the lens will not appear on the screen.

- To play back recorded images on a TV screen
 Connect this camcorder to the TV with the supplied A/V connecting cable before
- operation.

 When operating memory photo playback on a TV or the LCD screen, the image quality may appear to have deteriorated. This is not a malfunction. The image data is as good as
- Turn the audio volume of the TV down before operation, or there may be noise (howling) coming from the TV speakers.





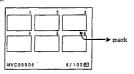
Playing back 6 recorded images at a time (index screen)

You can play back 6 recorded images at a time. This function is especially useful when searching for a particular image.



Press MEMORY INDEX.

A red ▶ mark appears above the image that is displayed before changing to index screen



- To display the following 6 images, keep pressing MEMORY + To display the previous 6 images, keep pressing MEMORY --.

To return to the normal playback screen (single screen)
Press MEMORY +/- to move the ▶ mark to the image you want to display on full screen, then press MEMORY PLAY.

Viewing a still picture - memory photo playback

When displaying the index screen, the number appears above each image. This indicates the recording order on the memory stick or PC card. These numbers are different from the data file names.

Files modified with personal computers
Those files cannot be displayed on the index screen. Image files shot with other equipment cannot be displayed on the index screen either.

The image quality mode indicator
The indicator may show a different mode in which you recorded. This is not a malfunction.
The indicator shows the volume of the data file. For instance, if the volume of SFN image is small enough, it may be displayed as FIN or STD.

Viewing the recorded images using a personal computer

The image data recorded with this camcorder is compressed in the JPEG format. If your personal computer has an application software that allows you to see JPEG images, you can see images recorded on a memory stick or PC card on a computer screen. For detailed instructions on operation, refer to the operating instruction supplied with the application

Examples of recommended OS/application software

- OS

 •Windows 95

 •Windows NT3.51 or newer versions, etc.
 Application

 •Microsoft Internet Explorer, etc.

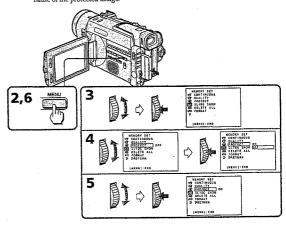
- Notes
 For MacIntosh, you can use the floppy disk recorded with this camcorder using the PC Exchange with Mac OS system 7.5 or higher. A viewing application for MacIntosh is also necessary for viewing images.
 When you see images recorded with the camcorder on a personal computer, the display may show lines on the edge of the screen, depending on the status of video input signals at the moment. This is not a malfunction.

Preventing accidental erasure — PROTECT

To prevent accidental erasure of important images, you can protect selected image

Before operation
Insert the PC card adaptor (with a memory stick inside) or a PC card to the unit.

- (1) Display the image you want to protect.
 (2) Press MENU to display the menu.
 (3) Turn the control dial to select [7], then press the dial.
 (4) Turn the control dial to select PROTECT, then press the dial.
 (5) Turn the control dial to select ON, then press the dial.
 (6) Press MENU to erase the menu. The "0-" mark is displayed beside the data file name of the protected image.



To cancel protection of the image Select OFF in step 5, then press the control dial.

Note Formatting erases all information on the memory stick or PC card, including the protected image data. Check the contents of the memory stick or PC card before formatting.

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card slot

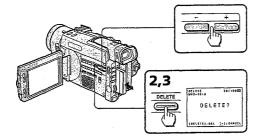
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Deleting images

Deleting selected image

Before operation
Insert the PC card adaptor (with a memory stick inside) or a PC card to the unit

- (1) Display the image you want to erase.
 (2) Press MEMORY DELETE. "DELETE?" appears on the LCD screen.
 (3) Press MEMORY DELETE again. The selected image is deleted.



To cancel deleting an image

Press MEMORY - in step 3

To delete an image displayed on the index screen

indicator to the desired image and follow steps 2 and 3.

• To delete protected image, cancel their protection first.
• Once you delete an image, you cannot restore it. Check the images to delete carefully before deleting them.

Deleting images

Erasing all the images

You can delete all the unprotected images in a memory stick or PC card.

Insert the PC card adaptor (with a memory stick inside) or a PC card to the unit.

- (1) Set the POWER switch to MEMORY. Make sure that the lock knob is set to the right (urlock) position.

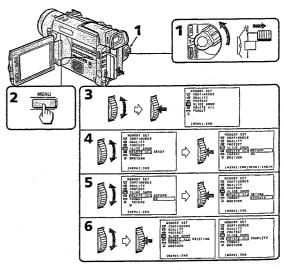
 (2) Press MENU to display the menu.

 (3) Turn the control dial to select ELL, then press the dial.

 (4) Turn the control dial to select ELETE ALL, then press the dial.

 (5) Turn the control dial to select OK, then press the dial. "OK" changes to

- "EXECUTE."
- (6) Turn the control dial to select EXECUTE, then press the dial. "DELETING" appears on the LCD screen. When all the unprotected images are deleted, "COMPLETE" is displayed.



Deleting images

To cancel deleting all the images on the memory stick or PC card Select \Rightarrow RETURN in step 4, then press the control dial.

While "DELETING" appears
Do not turn the POWER switch or press any buttons.

Copying the image recorded with the memory card slot to mini DVCAM tapes

You can copy still images or titles recorded with the memory card slot and record them to a mini $\ensuremath{\mathsf{DVCAM}}$ tape.

- Before operation
 Insert a mini DVCAM tape for recording.
 Insert the PC card adaptor (with a memory stick inside) or a PC card to the unit.
- (1) Set the POWER switch to VTR.

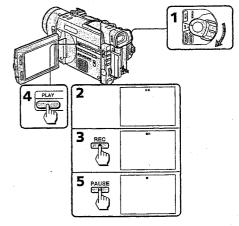
 (2) Using the tape transport buttons, search a point where you want to record the desired still image. Set the mini DVCAM tape to playback pause mode.

 (3) Press © REC to set the mini DVCAM tape to recording pause mode.

 (4) Play back the still image you want to copy.

 (5) Press II to start recording and press III again to stop.

 (6) If you have more to copy, repeat steps 4 and 5.



To stop copying in the middle $\operatorname{Press} \square.$

During copying
You cannot operate the following buttons:
MEMORY PLAY, MEMORY INDEX, MEMORY DELETE, MEMORY +, and MEMORY --

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Copying the image recorded with the memory card slot to mini DVCAM tapes

If you press the EDITSEARCH buttons during pause mode Memory playback stops.

If you press the DISPLAY button in Standby or Recording mode
You can see memory playback and the file name indicators in addition to the indicators
pertinent to mini DVCAM tapes, such as the time code indicator.

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Playing back images in a continuous loop —SLIDE SHOW

You can automatically play back images in sequence. This function is useful especially when checking the recorded images or during a presentation.

Before operation
Insert the PC card adaptor (with a memory stick inside) or a PC card to the unit.

- (1) Set the POWER switch to MEMORY. Make sure that the lock knob is set to the right

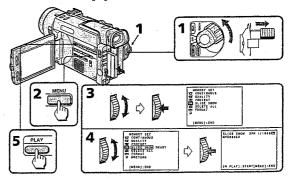
- (unlock) position.

 (2) Press MENU to display the menu.

 (3) Turn the control dial to select EL, then press the dial.

 (4) Turn the control dial to select SLIDE SHOW, then press the dial.

 (5) Press MEMORY PLAY. The unit plays back the images recorded on a memory stick or PC card in sequence. When all the images have been played back, the display shows the first image again and the slide show ends.



To cancel the slide show

To pause during a slide show Press MEMORY PLAY to set it in a pause.

To start the slide show from a particular image Select the desired image using MEMORY +/- buttons before step 2.

To view the recorded images on TV Connect this camcorder to a TV with the supplied A/V connecting cable before operation.

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Playing back images in a continuous loop - SLIDE SHOW

Note on the slide show You cannot make copy of the slide show on a mini DVCAM tape.

If you change the memory stick or PC card during operation
The slide show does not operate. If you change the memory stick or PC card, be sure to
follow the steps again from the beginning.

Additional information

Compatibility of DVCAM and DV formats

DVCAM format is developed as a more reliable and higher end format than consumer DV format. Here explained are the differences, compatibility, and limitations on editing about DVCAM and DV formats.

Differences between DVCAM and DV formats

| ltem | DVCAM | DV | |
|--------------------------|--|--|--|
| Track pitch | 15 µm | 10 μm | |
| Audio sampling frequency | 12 bit: 32 kHz 16 bit: 48 kHz | 12 bit: 32 kHz 16 bit: 32 kHz, 44.1 kHz, 48 kHz | |
| Audio recording mode 1) | Lock mode | Unlock mode | |
| Time code | Drop frame system or Non-drop frame system (SMPTE time code) | Drop frame system only | |

¹⁷There are two modes for audio recording, lock mode and unlock mode. In lock mode, the sampling frequencies of audio and video are synchronized. In unlock mode, which consumer DV format adopts, the two sampling frequencies are independent. Therefore, lock mode is more effective than unlock mode in digital processing and smooth transition during audio editing.

Mini DVCAM and mini DV cassettes

Both mini DVCAM and mini DV cassettes can be used on mini DVCAM or mini DV video equipment. The recording format of picture is defined according to recorder's format as described below.

| Recorder's format | Cassette's format | Recording format |
|-------------------|-------------------|------------------|
| DVCAM | DVCAM | DVCAM |
| | DV | DVCAM |
| DV | DVCAM · | DV |
| | DV | DV |

This digital camcorder complies with DVCAM format. Though mini DV cassettes can be used for recording, we recommend you to use mini DVCAM cassettes to get the most out of high reliability of DVCAM format. The recording time of mini DV cassettes is 2/9 shorter than that indicated on the mini DV cassettes.

Compatibility on playback Some tapes cannot be played back on mini DVCAM or mini DV video equipment. On DV video equipment On DVCAM video equipment DV-formatted Can be played back Can be played back (only when recorded in SP mode) DVCAM-formatted Some equipments may be Can be played back able to play back

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Compatibility of DVCAM and DV formats

Compatibility on editing using DV connectors

When this digital camcorder is connected to other mini DVCAM or mini DV video equipment using DV connectors, the recording format of edited tapes is defined according to recorder's format as described below.

| Source tape | Player's format | Recorder's format | Recording format |
|----------------------|-----------------|-------------------|------------------|
| DVCAM-formatted 2)3) | DVCAM | DVCAM | DVCAM |
| DVCAM-formatted | DVCAM | DV | DV +) |
| DVCAM-formatted 2) | DV 5) | DVCAM | DVCAM? |
| DVCAM-formatted | DV 5) | DV | DV 4) |
| DV-formatted 60 | DVCAM | DVCAM | DVCAM 1) |
| DV-formatted 6) | DVCAM | DV | DV |
| DV-formatted | DV | DVCAM | DVCAM 1) |
| DV-formatted | DV | DV | DV |

10 When using the mini DVCAM video equipment to carry out DV dubbing of a tape recorded in DV format, the tape produced will be in DVCAM format as follows:

- Audio recording mode will be unlock mode.

- The time code format will be partly maladjusted. (There will be no effect on the recorded picture except in certain case.)

20 If the tape is to be dubbed is DVCAM formatted tape as in 1), the tape produced will be in DVCAM format as follows:

- Audio recording mode will be unlock mode.

- The time code format will be partly maladjusted.

30 Depending on signal conditions of the source tape, you may not be able to edit the tape using the DV connectors.

31 Audio recording mode of the edited tape is lock mode.

32 Some mini DV video equipment may be able to play back a DVCAM-formatted tape.

23 Even if the tape is played back, contents of the playback cannot be guaranteed.

24 DV-formatted tapes recorded in SP mode only can be used as source tapes.

32 Depending on model of video equipment, you may not be able to edit.

Limitations on editing

Limitations on editing
You will find the following limitations when editing.

Due to the difference of a track pitch, you cannot record or edit on DV-formatted tapes using mini DVCAM video equipment.

Depending on signal conditions, you may not be able to record or edit on DVCAM-formatted tapes.

In these cases, do the following:

Additional equilibrium of the party of the properties of

 Edit using audio/video jacks.
 Dub a DV-formatted tape using audio/video jacks, then use the dubbed tape as a source tape.

Selecting cassette types

You can use the [DECAM], mini DVCAM cassette only, You cannot use any other INDV, III 8 mm, HIII HIS, WIS VHS, SWIS S-VHS, WISE VHSC, SWISH S-VHSC, III Betamax or WIEE ED Betamax cassette.

Usable cassettes and playback modes

ED Beamax cassene.

We recommend mini DVCAM cassette with cassette memory.

There are two types of mini DVCAM cassettes: with cassette memory. The IC memory is mounted on this type of mini DVCAM cassettes. This cancorder can read and write data such as dates of recording or titles, etc. to this memory. The functions using the cassette memory require successive signals recorded on the tape. If the tape has a blank portion in the beginning or between the recorded portions, a title may not be displayed properly or the search functions may not work properly. Not to make any blank portion on the tape, operate the following.

Press END SEARCH to go to the end of the recorded portion before you begin the next recording if you operate the following:

—you have played back the tape in the VTR mode.
—you have used the Edit Search function.

If there is a blank portion or discontinuous signal on your tape, re-record from the beginning to the end of the tape concerning above.

If there is a blank portion or discontinuous signal on your tape, re-record from the beginning to the end of the tape concerning above.

The same result may occur when you record using a digital video camera recorder without a cassette memory function on a tape recorded by one with the cassette memory function. Tapes with cassette memory have CJII (Cassette Memory) mark. Sony recommends that you use a tape having CJII mark to enjoy this camcorder fully.

When you play back

Copyright signal

When playing back
When playing back
Using any other video camera recorder, you cannot record on a tape that has recorded a copyright control signals for copyright protection of software which is played back in this cancorder.

When recording
Using this amcorder, you cannot record software that has recorded a copyright control signals for copyright protection of software. "COPY INHIBIT" appears on the LCD screen, in the viewfinder or on the TV screen if you try to record such software.

Audio mode

Audio Mode

F552K (12-bit) mode: The original sound can be recorded in stereo 1, and the new sound in stereo 2 in 32 kHz. The balance between stereo 1 and stereo 2 can be adjusted by selecting AUDIO MIX in the menu system during playback. Both sounds can be played back. F548K (16-bit) mode: A new sound cannot be recorded but the original sound can be recorded in high quality. Moreover, it can also play back sound recorded in 32 kHz, 44.1 kHz or 48 kHz. When playing back a tape recorded in the F548K (16-bit) mode, 48K indicator appears on the LCD screen or in the viewfinder.

Notes on the mini DVCAM cassette

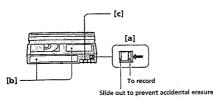
To prevent accidental erasure

ut the protect tab on the cassette so that the red portion is visible. [a]

When affixing a label on the mini DVCAM cassette
Be sure to affix a label only on the locations as illustrated below so as not to cause malfunction of the camcorder. [b]

After using the mini DVCAM cassette

Rewind the tape to the beginning, put the case position. sette in its case, and store it in an upright



Note on gold-plated connector

If the gold-plated connector of mini DVCAM cassettes is dirty or dusty, you may not operate the function using cassette memory. Clean up the gold-plated connector with cotton-wool swab, about every 10 times ejection of a cassette. [c]

Charging the vanadium-lithium battery in the

Your camcorder is supplied with a vanadium-lithium battery installed so as to retain the date and time, etc., regardless of the setting of the POWER switch. The vanadium-lithium battery is always charged as long as you are using the camcorder. The battery, however, will get discharged gradually if you do not use the camcorder. It will be completely discharged in about a year if you do not use the camcorder at all. Even if the vanadium-lithium battery is not charged, it will not affect the camcorder operation. To retain the date and time, etc., charge the battery if the battery is discharged. The following are charging methods:

Connect the camcorder to house current using the supplied AC power adaptor, and leave the camcorder with the POWER switch turned off for more than 24 hours.

Or install the fully charged battery pack in the camcorder, and leave the camcorder with the POWER switch turned off for more than 24 hours.

tting the date and time

To correct the date and time setting

Repeat steps 2 to 5.

If you do not set the date and time "———" is recorded on the tape and "80.1.1" on the memory stick or PC card

vear indicator changes as follows: 1998 → 1999 → . . 2001 . . → 2029

Note on the time indicator
The internal clock of this camcorder operates on a 12-hour cycle (DSR-PD100) or on a 24-hour cycle (DSR-PD100P).

• 12:00 AM stands for midnight.

• 12:00 PM stands for noor

Simple setting of clock by time difference

You can easily set the clock for a local time by a time difference in the menu system.

You can easily set the clock for a local time by a time difference in the meru system. You can also reset the clock simply by setting the time difference to zero.

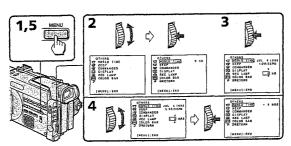
(1) While the camcorder is in Standby mode, press MENU to display the menu.

(2) Turn the control dial to select £0, then press the dial.

(3) Turn the control dial to select WORLD TIME, then press the dial.

(4) Turn the control dial to set a time difference, and press the dial. The hour of clock changes in relation to a time difference which you set.

(5) Press MENU to erase the menu display.



Note on WORLD TIME

If the clock is not set, WORLD TIME does not work.

Resetting the date and time

The date and time are set at the factory. Set the time according to the local time in your country. If you do not use the camcorder for about a year, the date and time settings may be released (bars may appear) because the variadium-lithium battery installed in the camcorder will have been discharged. In this case, first charge the vanadium-lithium battery, then reset the date and time.

(1) Set the POWER switch to CAMERA.

(1) Set the POWER SWINCH OF CAMBEAN.

(2) Press MENU to display the menu.

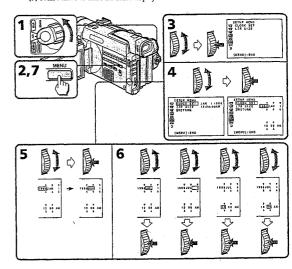
(3) Turn the control dial to select (1), then press the dial.

(4) Turn the control dial to select (1), then press the dial.

(5) Turn the control dial to adjust the year, then press the dial.

(6) Set the month, day, hour and minutes by turning and pressing the control dial.

(7) Press MENU to erase the menu display.



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Tips for using the battery pack

This section shows you how you can get the most out of your battery pack.

Preparing the battery pack

Always carry additional batteries
Have sufficient battery pack power to do 2 to 3 times as much recording as you have

Battery life is shorter in a cold environment

Battery efficiency is decreased, and the battery will be used up more quickly, if you are recording in a cold environment.

To save battery power

Io SaVe Dattery power

Do not leave the camcorder in Standby mode when not recording to save the battery power.

A smooth transition between scenes can be made even if recording is stopped and started again. While you are positioning the subject, selecting an angle, or looking at the LCD screen or through the viewfinder, the lens moves automatically and the battery is used. The battery is also used when a tape is inserted or removed.

When to replace the battery pack

While you are using your camcorder, the remaining battery indicator on the LCD screen or in the viewfinder decreases gradually as battery power is used up. The remaining time in minutes also appears.

When the remaining battery indicator reaches the lowest point, the © indicator appears and starts flashing on the LCD screen or in the viewfinder. When the © Indicator on the LCD screen or in the viewfinder changes from slow flashing to rapid flashing while you are recording, set the PCWER switch to OFF on the camcorder and replace the battery pack. Leave the tape in the camcorder to obtain a smooth transition between scenes after the battery pack has been replaced.

Notes on the rechargeable battery pack

Caution

Never leave the battery pack in temperatures above 60°C (140°F), such as in a car parked in the sun or under direct sunlight.

The battery pack heats up. During charging or recording, the battery pack heats up. This is caused by energy that has been generated and a chemical change that has occurred inside the battery pack. This is not cause for concern, and is normal.

Battery pack care

- Battery pack care

 *Remove the battery pack from the camcorder after using it, and keep it in a cool place.

 When the battery pack is installed to the camcorder, a small amount of current flows to the camcorder even if the POWER switch is set to OFF. This shortens battery life.

 The battery pack is always discharging even when it is not in use after charging. Therefore, you should charge the battery pack right before using the camcorder.

Tips for using the battery pack

The life of the battery pack

If the battery indicator flashes rapidly just after turning on the camcorder with a fully charged battery pack, the battery pack should be replaced with a new fully charged one

Charging temperature

You should charge batteries at temperatures from 10°C to 30°C (from 50°F to 86°F). Lower temperatures require a longer charging time.

Notes on the "InfoLITHIUM" Battery Pack

What is the "InfoLITHIUM" battery pack

WHEN IS THE "INTOLITHIUM" battery pack
The "InfoLITHIUM" battery pack is a lithium battery pack which can exchange data with
compatible video equipment about its battery consumption.
When you use this battery pack with video equipment having the (1) InfoRMIN mark, the
video equipment will indicate the remaining battery time in minutes."
The indication may not be accurate depending on the condition and environment which
the equipment is used under.

How the battery consumption is displayed

How the battery consumption is displayed
The power consumption of the camcorder changes depending on its use, such as whether
the LCD panel is used or not, how the autofocusing is working on or not.
While checking the condition of the camcorder, the "InfoLITHIUM" battery pack measures
the battery consumption and calculates the remaining battery power. If the condition
changes drastically, the remaining battery indication may suddenly decrease or increase by
more than 2 minutes.
Even if 5 to 10 minutes is indicated as the battery remaining time on the LCD screen or in the
viewfinder, the CD indicator may also flash under some conditions.

To obtain more accurate remaining battery indication

To obtain more accurate remaining battery indication

Set the cancorder to recording standby mode and point towards a stationary object. Do not move the camcorder for 30 seconds or more.

If the indication seems incorrect, use up the battery and then recharge it fully (Full charges). Note that if you have used the battery in a hot or cold environment for long time, or you have repeated charging many times, the battery may not be able to show the correct time even after being fully charged.

After you have used the "InfoLITHIUM" battery pack with an equipment not having the mountains mark, make sure that you use up the battery on the equipment having the metalline mark and then recharge fully.

Tips for using the battery pack

Why the remaining battery indication does not match the continuous recording time in the operating instruction. The recording time is affected by the environmental temperature and conditions. The recording time is affected by the environmental temperature and conditions recording time becomes very short in a cold environment. The continuous recording tin the operating instruction is measured under the condition of using a fully charged (or normal charged?) battery pack in 25° C/O $^{\circ}$ F). As the environmental temperature and condition are different when you actually use the camcorder, the remaining battery time not same as the continuous recording time in the operating instruction.

1) Full charge: Charging for about 1 hour after the charge lamp of the AC power adaptor goes

²⁾ Normal charge: Charging just until the charge lamp of the AC power adaptor goes off.

Notes on charging

A brand-new battery pack
A brand-new battery pack is not charged. Before using the battery pack, charge it completely.

Recharge the battery pack whenever you like
You do not have to discharge it before recharging. If you charged the battery pack fully but
you did not use it for a long time, it becomes discharged. Then recharge the battery pack
before use.

Notes on the terminals

If the terminals (metal parts on the back) are not clean, the battery charge duration

When the terminals are not clean or when the battery pack has not been used for a long time, repeatedly install and remove the battery pack a few times. This improves the contact condition. Also, wipe the +, - and C terminals with a soft cloth or paper.

Be sure to observe the following

- Keep the battery pack away from fire.
 Keep the battery pack dry.
 Do not open not ry to disassemble the battery pack.
 Do not expose the battery pack to any mechanical shock.

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Maintenance information and precautions

Moisture condensation

If the camcorder is brought directly from a cold place to a warm place, moisture may condense inside the camcorder, on the surface of the tape, on the lens, on the head, or on the floppy disk. In this condition, the tape may stick to the head drum and be damaged or the camcorder may not operate correctly. To prevent possible damage under these circumstances, the camcorder is furnished with moisture sensors. Take the following

Inside the camcorder

If there is moisture inside the camcorder, the beep sounds and the ℍ indicator flashes. Eject the cassette or the PC card adaptor immediately. If this happens, none of the function excep cassette ejection will work. Open the cassette compariment, turn off the camcorder, and leave it about 1 hour. When ≜ indicator flashes at the same time, the cassette is inserted in the camcorder. Eject the cassette, turn off the camcorder, and leave also the cassette about 1 hour.

On the lens

If moisture condenses on the lens, no indicator appears, but the picture becomes dim. Turn off the power and do not use the camcorder for about 1 hour.

How to prevent moisture condensation
When bringing the camcorder from a cold place to a warm place, put the camcorder in a plastic bag and allow it to adapt to room conditions over a period of time.
(1) Be sure to tightly seal the plastic bag containing the carcorder.

(2) Remove the bag when the air temperature inside it has reached the temperature surrounding it (after about 1 hour).

Video head cleaning

- To ensure normal recording and clear pictures, clean the video heads.

 The video heads may be dirty when:

 mosaic-pattern noise appears on the playback picture
 playback pictures do not move
 playback pictures are hardly visible
 playback pictures are hardly visible
 playback pictures do not appear
 the © indicator and *@Z CLEANING CASSETTE" message appear one after another or the © indicator flashes on the LCD screen or in the viewfinder.









If [a] or [b] happens, clean the video heads with the Sony DVM12CL cleaning cassette (not supplied). Check the picture and if the above problem persists, repeat the cleaning. (Do not repeat cleaning more than 5 times in one session.)

If the DVM12CL cleaning cassette (not supplied) is not available in your area, consult your

Precautions

- Camcorder operation
- Camcorder operation

 Operate the camcorder on 7.2 V (battery pack) or 8.4 V (AC power adaptor).

 Should any solid object or liquid get inside the casing, unplug the camcorder and have it checked by Sony dealer before operating it any further.

 Avoid rough handling or mechanical shock. Be particularly careful of the lens.

 Keep the POWER switch set to OFF when not using the camcorder.

 Do not wrap up the camcorder and operate it since heat may build up internally.

 Keep the camcorder away from strong magnetic fields or mechanical vibration.

On handling tapes

Maintenance information and precautions

Do not insert anything in the small holes on the cassette.
 Do not open the tape protect cover or touch the tape.
 Avoid touching or damaging the terminals. To remove dust, clean the terminals with a soft cloth.

Camcorder care

- Camnorder Care

 *When the camcorder is not to be used for a long time, disconnect the power source and remove the tape. Periodically turn on the power, operate the camera and player sections and play back a tape for about 3 minutes.

 *Clean the lens with a soft trush to remove dust. If there are fingerprints on the lens, remove them with a soft cloth.

 *Clean the camcorder body with a dry soft cloth, or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of solvent which may damage the finish.

 *Do not let sand get into the camcorder. When you use the camcorder on a sandy beach or in a dusty place, protect if from the sand or dust. Sand or dust may cause the unit to malfunction, and sometimes this malfunction cannot be repaired.

Maintenance information and precautions

AC power adaptor
Charging

• Use only an "InfoLITHIUM" type battery pack.

• Place the battery pack on a flat surface without vibration during charging.

• The battery pack will get hot during charging. This is normal.

Others

- Unplug the unit from the wall outlet when not in use for a long time. To disconnect the power cord, pull it out by the plug. Never pull the cord itself.

- Do not operate the unit with a damaged cord or if the unit has been dropped or damaged.

- Do not bend the AC power cord forcibly, or put a heavy object on it. This will damage the cord and may cause a fire or an electrical shock.

- Be sure that nothing metallic comes into contact with the metal parts of the connecting plate. If this happens, a short may occur and the unit may be damaged.

- Allways keep the metal contacts dean.

- Do not assessmible the unit.

- Do not assessmible the unit.

- Do not apply mechanical shock or drop the unit.

- While the unit is in use, particularly during charging, keep it away from AM receivers and video equipment because it will disturb AM reception and video operation.

- The unit becomes warm while in use. This is normal.

- Do not place the unit in locations that are:

Extremely hor or cold, Dusty or dirty, Very humid, Vibrating

Note on dry batteries
To avoid possible damage from battery leakage or corrosion, observe the following.

• Be sure to insert the batteries in the correct direction.

• Dry batteries are not rectargeable.

• Do not use a combination of new and old batteries.

• Do not use different types of batteries.

• The batteries slowly discharge while not in use.

• Do not use a battery that is leaking.

If battery leakage occurred

*Wipe off the liquid in the battery case carefully before replacing the batteries.

*If you touch the liquid, wash it off with water.

*If the liquid get into your eyes, wash your eyes with a lot of water and then consult a definition. If any difficulty should arise, unplug the unit and contact your nearest Sony dealer.

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Trouble check

If you run into any problem using the camcorder, use the following table to troubleshoot the problem. Should the difficulty persist, disconnect the power source and contact your Sony dealer or local authorized Sony service facility.

| Camcorder | | | | |
|--|---|--|--|--|
| Power | | | | |
| Symptom | Cause and/or corrective actions | | | |
| The power cannot be turned on. | The battery pack is not installed. Install the battery pack (p. 8) The battery is dead. Use a charged battery pack. (p. 9) The AC power adaptor is not connected to a wall outlet (mains). Connect the AC power adaptor to a wall outlet (mains). (p. 27) | | | |
| The power goes off. | While being operated in CAMERA mode, the camoorder has been in Standby mode for more than 5 minutes. Set the POWER switch to OFF, then to CAMERA. (p. 13. The battery is dead. Use a charged battery pack. (p. 9) | | | |
| The battery pack is quickly discharged. | The ambient temperature is too low. (p. 120) The battery pack has not been charged fully. Charge the battery pack again. (p. 9) The battery pack is completely dead, and cannot be recharged. Use another battery pack. (p. 26) | | | |
| Operation | | | | |
| Symptom | Cause and/or corrective actions | | | |
| START/STOP does not operate. | The tape is stuck to the drum. Flight the cassette. (p. 12) The tape has run out. Rewind the tape or use a new one. (p. 23) The POWER switch is not set to CAMERA. Set it to CAMERA. (p. 13) The tab on the cassette is out (red). Use a new tape or side the tab. (p. 12) | | | |
| The cassette cannot be removed from the holder. | The AC power adaptor is not connected to a wall outlet (mains). Connect the AC power adaptor to a wall outlet (mains). (p. 27) The battery is dead. Use a charged battery pack or the AC power adaptor. (p. 9, 27) | | | |
| | Moisture condensation has occurred. Remove the cassette and leave the camcorder for at least 1 hour. (p. 123) | | | |
| "CLOCK SET" appears when the camcorder is turned on. | Reset the date and time. (p. 118) | | | |
| The end search function does not work. | You did not make a new recording after reinserting the | | | |

• The tape without cassette memory ejected after recording.

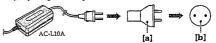
Continued to the next page 127

Using your camcorder abroad

Each country or area has its own electric and TV color systems. Before using your camcorder abroad, check the following points.

Power sources

You can use your camcorder in any country or area with the supplied AC power adaptor within 100 V to 240 V AC, 50/60 Hz. Use a commercially available AC plug adaptor [a], if necessary, depending on the design of the wall outlet [b].



Difference in color systems

DSR-PD100 is an NTSC system-based camcorder. If you want to view the playback picture on a TV, it must be an NTSC system-based TV. DSR-PD100P is a PAL system-based camcorder. If you want to view the playback picture on a TV, it must be a PAL system-based TV. Check the following list.

NTSC system

N1Sc. system Bahama Islands, Bolivia, Canada, Central America, Chile, Colombia, Ecuador, Jamaica, Japan, Korea, Mexico, Peru, Surinam, Taiwan, the Philippines, the U.S.A., Venezuela, etc.

PAL system

PAL system Australia, Austria, Belgium, Czech Republic, China, Denmark, Finland, Germany, Great Britain, Holland, Hong Kong, Italy, Kuwait, Malaysia, New Zealand, Norway, Portugal, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Thailand, etc.

PAL-M system

PAL-N system Argentina, Paraguay, Uruguay

SECAM system

Bulgaria, France, Guiana, Hungary, Iran, Iraq, Monaco, Poland, Russia, Ukraine, etc.

| Operation | | | | |
|---|--|--|--|--|
| Symptom | Cause and/or corrective actions | | | |
| The end search function does not work correctly. | The tape has a blank portion in the middle. | | | |
| The tape does not move when a tape transport button is pressed. | The POWER switch is not set to VTR. Set it to VTR. (p. 23) The tape has run out. Rewind the tape or use a new one. (p. 23) | | | |
| No sound or only a low sound is heard when playing back a tape. | The volume is turned to the minimum. Open the LCD panel and press VOLUME +. (p. 23) AUDIO MIX is set to ST2 side in the menu system. Adjust AUDIO MIX in the menu system. (p. 87) | | | |
| The new sound added to the recorded tape is not heard. | AUDIO MIX is set to ST1 side in the menu system. Adjust AUDIO MIX in the menu system. (p. 87) | | | |
| The Steady Shot function does not work. | STEADYSHOT is set to OFF in the menu system. Set it to ON. (p. 51) | | | |
| The autofocus function does not work. | Focus is set to the manual mode. Set it to autofocus. (p. 58) Shooting conditions are not suitable for autofocus. Set focus to manual mode to focus manually. (p. 58) | | | |
| The title is not displayed. | TITLE DSPL is set to OFF in the menu system. → Set it to ON in the menu system. (p. 31) | | | |
| The title is not recorded. | The tape has no cassette memory. Use a tape with assette memory. (p. 63) The cassette memory is full. Ense another title. (p. 65) The tape is set to prevent accidental erasure. Side the protect als so that red portion is not visible. (p. 12) Nothing is recorded in that position on the tape. Superimpose the title to the recorded position. (p. 63) | | | |
| The cassette label is not recorded. | The tape has no cassette memory. Just a tape with cassette memory. (p. 68) The cassette memory is full. Sirase some titles. (p. 65) The tape is set to prevent accidental erasure. Slide the protect tab so that red portion is not visible. (p. 12) | | | |
| Displaying the recorded date, date search function does not work. | The tape has no cassette memory. → Use a tape with cassette memory. (p. 73) CM SEARCH is set to OFF in the menu system. → Set it to ON. (p. 73) | | | |

Trouble check

| Operation | | | |
|--|--|--|--|
| Symptom | Cause and/or corrective actions | | |
| The title search function does not work. | The tape has no cassette memory. Use a tape with cassette memory. (p. 75) CM SEARCH is set to OFF in the menu system. Set it to ON. (p. 75) There is no title in the tape. Superimpose the titles. (p. 63) | | |
| CIII indicator does not appear when using a tape with cassette memory. | The gold-plated connector of the tape is dirty or dusty. → Clean the gold-plated connector. (p. 117) | | |
| The date search, title search, or end search does not work correctly. | The tape has a blank portion between the recorded portions. (p. 116) | | |
| The click of the shutter does not sound. | BEEP is set to OFF in the menu system. → Set it to MELODY or NORMAL. (P. 32) | | |
| Picture Symptom | Cause and/or corrective actions | | |
| The image on the viewfinder screen is not clear. | The viewfinder lens is not adjusted. → Adjust the viewfinder lens. (p. 14) | | |
| A vertical band appears when a subject such as lights or a candle flame is shot against a dark background. | The contrast between the subject and background is too high. The camcorder is not malfunctioning. Change locations. | | |
| The picture is "noisy" or does not appear. | The video heads may be dirty. Clean the heads using the Sony DVM12CL (not supplied) cleaning cassette. (p. 123) | | |
| | → Clean the heads using the Sony DVM12CL (not | | |
| indicator flashes on the LCD screen or in the viewfinder. | → Clean the heads using the Sony DVM12CL (not | | |
| indicator flashes on the LCD screen or | Clean the heads using the Sony DVM12CL (not supplied) cleaning casette. (p. 123) The video heads may be dirty. Clean the heads using the Sony DVM12CL (not supplied) cleaning casette. (p. 123) | | |

Screen or in the viewfunder.

The picture does not appear in the viewfunder.

The LCD panel is open.

Close the LCD panel.

A display such as "C:□□:□□" appears on the LCD screen or in the viewfunder.

The self-diagnosis display function has been activated.

The self-diagnosis display function has been activated.

Check the code and diagnosis the problem by referring to the code chart. (p. 132)

The camcorder is not malfunctioning.

Incorporated fluorescent tube is worn out.
 Please contact your nearest Sony dealer.

Continued to the next page 129

Trouble check

A vertical band appears when shooting a very bright subject.

The picture does not appear on the LCD screen or in the viewfinder.

Others Symptom

Cause and/or corrective actions Disconnect the power cord (mains lead) of the AC power adaptor or remove the battery pack, then reconnect it in about 1 minute. Turn the power on. If the functions still do not work, open the LCD panel and press the RESET button beside the speaker using a sharp-pointed object. (If you press the RESET button, all the settings including the date and time return to the default) (p. 136)

The input selector on the VCR is not set correctly.

Set the selector to DV input position. If you use another DVCAM camcorder, set the power switch to VTR.

The camcorder is connected to DVCAM equipment of other than Sony.

Operate normal editing.

Setting program on a blank portion of the tape is attempted. No function works though the power is on.

DV synchro-editing does not function.

- attempted.
 Set the program again on a recorded portion.

Trouble check

Picture

| Symptom | Cause and/or corrective actions |
|--|--|
| The picture seems to be in flash motion. | PROG. SCAN is set to ON in the menu system, or the POWER switch is set to MEMORY This is caused by progressive scanning (display with all the pixels) and is not a malfunction. |
| Remaining tape indicator is not displayed. | The STS REMAIN in the menu system is set to AUTO. If the remaining tape indicator is always displayed, set it to ON. |
| The memory card slot does not function. | The battery is dead. Use a charged battery pack or the AC power adaptor. The PC card adaptor or PC and is not inserted correctly. Eject the PC card adaptor or PC card and insert it correctly. The POWER switch is set to CAMERA. Seit to MEMORY or VTR. |
| Recording does not function. | The PC card adaptor or PC card has already been recorded to its full capacity. Brase unnecessary images and record again. The memory stick or PC card is not inserted. Insert the memory stick or PC card. Unusable PC card is inserted. Unformatted the memory stick or PC card. Format the memory stick or PC card. Format the memory stick or PC card. The protect switch on the memory stick is set to LOCK position. Sidde the protect switch to write. |
| The image cannot be deleted. | The image is protected. → Cancel the protect. |

Others

| Symptom | Cause and /or corrective actions | | | |
|--|---|--|--|--|
| While editing using the i.LINK cable (DV connecting cable), recording picture cannot be monitored. | Remove the i.LINK cable (DV connecting cable), an connect it again. | | | |
| The camcorder becomes warm. | If the power of the camcorder is on for a long time, it becomes warm, which is not malfunction. | | | |
| The supplied Remote Commander does not work. | COMMANDER is set to OFF in the menu system. Set it to ON. Something is blocking the infrared rays. Remove the obstacle The battery is not inserted with the correct polarity. | | | |

The battery is not inserted with the correct polarity.
 Insert the battery with the correct polarity (p. 140)
 The batteries are dead.
 Insert new ones. (p. 140)

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Self-diagnosis function

The camcorder has a self-diagnosis display. This function displays the camcorder's condition with five digits (a combination of a letter and figures) on the LCD screen or in the viewfinder. If this occurs, check the following code chart. The five-digit display informs you of the camcorder's current condition. The last two digits (indicated by CID) will differ depending on the state of the camcorder.



Self-diagnosis display

•C:□□:□□

You can service the camcorder

yourself. •E:□□:□□

Contact your Sony dealer or local authorized Sony facility.

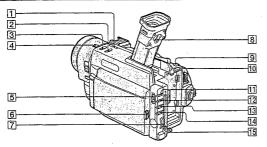
| Five-digit display | Cause and/or corrective actions |
|--------------------|---|
| C:04:DD | The battery other than "InfoLITHIUM" is used. → Use the "InfoLITHIUM" battery (p. 121) |
| C:21:00 | Moisture condensation has occurred. Remove the cassette and leave the camcorder for at least 1 hour (p. 123). |
| C:22:□□ | The video heads are dirty. Clean the heads using the Sony DVM12CL cleaning cassette (not supplied). (p. 123) |
| C31:00 C32:00 | A serviceable situation not mentioned above has occurred. Remove the cassette and insert it again, then operate the camcorder. (p. 12) Disconnect the power cord (mains lead) of the AC power adaptor or remove the battery pack. After reconnecting the power source, operate the camcorder. |
| E:61:00 E:62:00 | A camcorder malfunction which you cannot service has occurred. Contact your Sony dealer or local authorized Sony service facility and inform hem of the five dicits. (example: E:61:10) |

If you are unable to resolve the problem, contact your Sony dealer or local authorized Sony service facility.

1-32



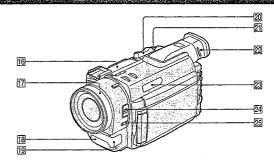
Identifying the parts



- 1 EDITSEARCH buttons (p. 22, 25)
- 2 BACK LIGHT button (p. 38)
- 3 FADER button (p. 36)
- 4 ND FILTER button (p. 49)
- 5 AUTO LOCK selector (p. 44)
- 6 OPEN switch (p. 23)
- 7 Control dial (p. 28)

- 8 Viewfinder lens adjustment lever (p. 14)
- 9 PHOTO button (p. 33)
- 10 | BATT (battery) RELEASE button (p. 11)
- SHUTTER SPEED button (p. 45)
- [2] WHT BAL (white balance) button (p. 46)
- 13 PROGRAM AE button (p. 55)
- 14 EXPOSURE button (p. 44)
- 15 Memory card slot (p. 88)

dentifying the pa



- Tape transport buttons (p. 23)

 ☐ STOP (stop)

 ← REW (rewind)

 ▷ PLAY (playback)

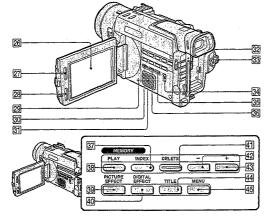
 ▶ FF (fast-forward)

 II PAUSE (pause)

 REC (record)
- 17 Focus ring (p. 58)
- 18 Remote sensor (p. 141)
- 19 Built-in microphone
- 20 Power zoom lever (p. 15)
- 21 TC RESET button (p. 14)
- 22 Viewfinder (p. 14)
- 23 Display window (p. 143)
- 24 FOCUS switch (p. 58)
- 25 PUSH AUTO button (p. 58)

134

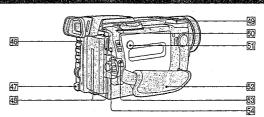
dentifying the parts



- 26 LCD Screen (p. 16)
- 27 LCD BRIGHT buttons (p. 16, 23)
- 28 VOLUME buttons (p. 23)
- 29 RESET button (p. 131)
- 30 DATA CODE button (p. 79)
- 31 Speaker
- 32 START/STOP button (p. 13)
- 33 POWER switch (p. 13, 23) 34 ZEBRA selector (p. 50)
- 35 END SEARCH button (p. 22, 25)

- 36 DISPLAY button (p. 23)
- 37 MEMORY INDEX button (p. 104)
- 38 MEMORY PLAY button (p. 103)
- 39 PICTURE EFFECT button (p. 41) 1 DIGITAL EFFECT button (p. 42)
- 41 MEMORY DELETE button (p. 107)
- 42 MEMORY button (p. 103, 107) 43 MEMORY + button (p. 103, 107)
- 44 TITLE button (p. 63, 66)
- 45 MENU button (p. 28)

ldentifying the parts



62 Grip strap (p. 20)

🔯 Lock knob (p. 14)

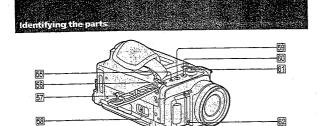
🔄 🛇 (self-timer) button (p. 19)

- 46 Access lamp (p. 90)
- 47 DC IN jack (p. 9)
- 48 Hooks for shoulder strap (p. 141)
- 49 Intelligent accessory shoe
- 50 EJECT switch (p. 12)
- 51 PUSH button (p. 12)

Intelligent Accessory Shoo Note on the intelligent accessory shoe Supplies power to optional accessories such as a video light or microphone. The intelligent accessory shoe is linked to the POWER switch, allowing you to turn on and off the power supplied by the shoe. Refer to the operating instruction of the accessory for further information. To connect an accessory, press down and push it to the end, and then tighten the screw. To remove an accessory, loosen the screw, and then press down and pull out the accessory.

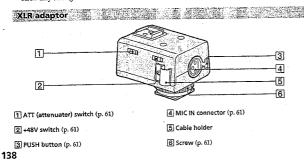
135

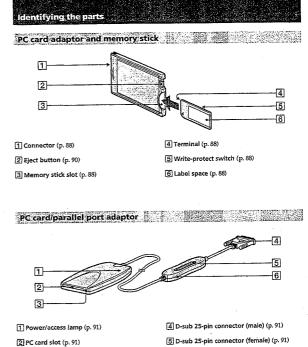
139



- b b V IN/OUT jack (p. 81)

 This "i.LlNK" mark is a trademark of Sony
 Corporation and indicates that this product is
 in agreement with IEEE 1394-1995
 specifications and their revisions. The B DV IN/OUT jack is i.LINK compatible.
- Tripod receptacle (p. 21)
 Make sure that the length of the tripod screw is less than 6.5 mm (9/32 inch). Otherwise, you cannot attach the tripod secrurely and the screw may damage the camcorder.
- 58 MEMORY RELEASE level
- 59 ∩ (headphones) jack (p. 23)
- 60 AUDIO/VIDEO jack (p. 70, 80)
- 61 S VIDEO jack (p. 34, 70, 80)
- 62 Camera recording lamp
- MIC jack (PLUG IN POWER) (p. 85) Connect an external microphone (not supplied). This jack also accepts a "plug-in-power" microphone.







The buttons that have the same name on the Remote Commander as on the camcorder function identically, 11 111 2 3 -12 4 -[13] 5 6 7 8 19

- 1 PHOTO button (p. 33)
- 2 DISPLAY button (p. 23)
- 3 Memory control buttons (p. 104)
- 4 SEARCH MODE button (p. 73, 75, 76)
- [5] Tape transport buttons (p. 23)
- 6 REC button (p. 84)/MARK button (p. 82)
- 7 AUDIO DUB button (p. 86)
- 8 1◀◀ /▶▶ buttons (p. 73, 75, 76)
- 9 Power zoom button (p. 15)
- [10] ZERO SET MEMORY button This button does not function
- 11 DATA CODE button (p. 79)
- [2] Transmitter
 Point toward the remote sensor to control the camcorder after turning on the camcorder.
- 3 START/STOP button (p. 13)

- To prepare the Remote Commander
 To use the Remote Commander, you must insert two size AA (R6) batteries. Use the supplied size AA (R6) batteries.
- (1) Remove the battery cover from the Remote Commander. (2) Insert both of the size AA (R6) batteries with correct polarity



ntifying the parts

3 Eject button(p. 91)

Note on battery life
The batteries for the Remote Commander last about 6 months under normal operation.
When the batteries become weak or dead, the Remote Commander does not work.

6 DC jack (p. 91)

To avoid damage from possible battery leakage Remove the batteries when you will not use the Remote Commander for a long time.

Remote control direction

Alm the Remote Commander to the remote sensor.

The operative range of the Remote Commander is about 5 m (16.4 feet) indoors. Depending on the angle, Remote Commander may not activate the camcorder.

Notes on the Remote Commander

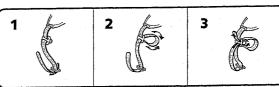
- Keep the remote sensor away from strong light sources such as direct sunlight or illumination. Otherwise, the remote control may not be effective.

 De sure that there is no obstacle between the remote sensor on the camcorder and the Remote Congrander.
- Remote Commander.

 *This camcorder works in commander mode VTR 2. The commander modes (1, 2 and 3) are used to distinguish this camcorder from other Sony VCRs to avoid remote control misoperation. If you use another Sony VCR in commander mode VTR 2, we recommend you change the commander mode or cover the remote sensor of the VCR with black paper.

Attaching the shoulder strap

Attach the supplied shoulder strap to the hooks for the shoulder strap.



2 FULL charge indicator (p. 9) 3 Remaining battery indicator (p. 9, 120)

Tape counter (p. 14) /
Memory counter (p. 10) /
Time code indicator (p. 13)

1 Cassette memory indicator (p. 116)

ntifying the pa

1 2

3 4

5

6

7

8

9

10 11

12

13

14 15

[2] Remaining battery indicator (p. 120)

[3] Zoom indicator (p. 15) /Exposure indicator (p. 45)/ Data file name indicator (p. 89)

4 Digital effect indicator (p. 43)

5 PROG.SCAN indicator (p. 35)/ 16:9WIDE indicator (p. 39)

6 Picture effect indicator (p. 41)

7 White balance indicator (p. 46)

B Gain shift indicator (p. 53)

9 AE shift indicator (p. 52)

10 Shutter speed indicator (p. 45)

11 Aperture indicator (p. 55)

12 Program AE indicator (p. 54)

[3] Back light indicator (p. 38)

[4] Steady shot OFF indicator (p. 51)

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[5] Manual focus/Infinity Indicator (p. 58)

17

18

-19

-[20]

21

-22

-23

-24

25 26

-27

f6 SP mode indicator (p. 24)

0:12:34 12 min 883

END SEARCH

Operation indicators

Œ 120min Œ SSTB

-STILLIIIIII -PROG. SCAN

17 Standby/Recording indicator (p. 13)/Tape transport mode indicator (p. 23)/Image quality mode indicator (p. 92)

18 Warning indicators (p. 144)

Time code indicator (p. 14) /Self diagnosis indicator (p. 132)/Image number indicator (p. 104)

20 Remaining tape indicator (p. 143)/Memory playback indicator (p. 104)

[2] END SEARCH indicator (p. 25)

22 Gain indicator (p. 79)

23 Audio mode indicator (p. 31)

24 Microphone level indicator (p. 48)

Continuous mode indicator (p. 102)

26 ND filter indicator (p. 49)

27 Video flash ready indicator (p. 33)

28 Self-timer indicator (p. 19)

143

Warning indicators

If indicators flash on the LCD screen or in the viewfinder or warning messages appear on the screen, check the following: h: You can hear the beep sound when BEEP is set to MELODY or NORMAL in the menu

1 2 3 3min 🖾 ※ ※※ 灤 6 4 5 22. PP. ተኮ <u>₩</u>-※※ 紫紫 9 7 8 -C:21:10 CLOCK SET CLEANING CASSETTE 坎

[] The battery is weak or dead.
Slow flashing: The battery is weak.
Fast flashing: The battery is dead.
Depending on conditions, the ♥□ indicator
may flash, even if there are 5 to 10 minutes
remaining.

2 The tape is near the end. The flashing is slow.

The tape has run out. The flashing becomes rapid.

[4] No tape has been inserted.

[5] The tab on the tape is out (red).

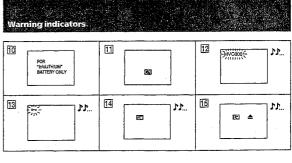
6 Moisture condensation has occurred. (p. 123)

7 The video heads may be contaminated. (p. 123)

8 The clock is not set.

When this message appears though you set the date and time, the vanadium-lithium battery is discharged. Charge the vanadium lithium battery. (p. 117)

 Some other trouble has occurred.
 Use the self-diagnosis function (p. 132). If the display does not disappear, contact your Sony dealer or local authorized Sony service facility.



10 The battery is not the "InfoLITHIUM" type.

The tape has no cassette memory. (p. 5)

[12] The file cannot be read properly.

13 The image data file is protected. The flashing is slow.

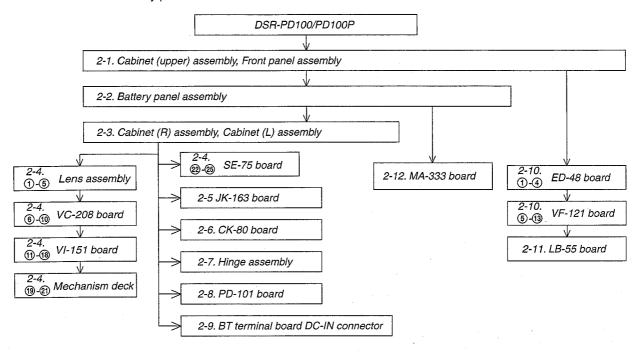
14 The tape has no memory left or cannot use the memory.

15 The protect tab is set to prevent accidental



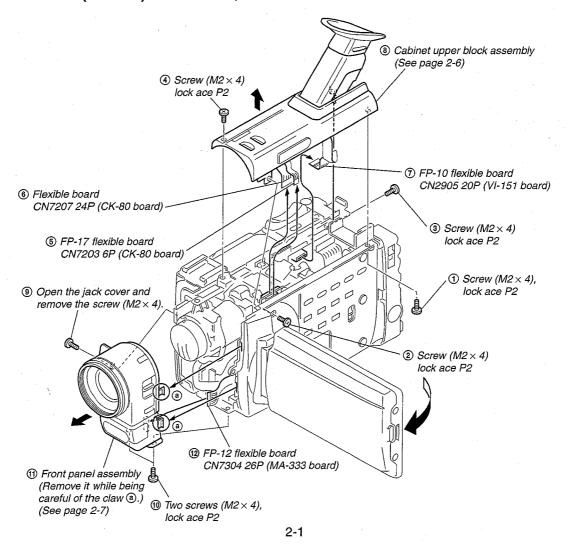
SECTION 2 DISASSEMBLY

NOTE: Follow the disassembly procedure as shown in the flow chart below.

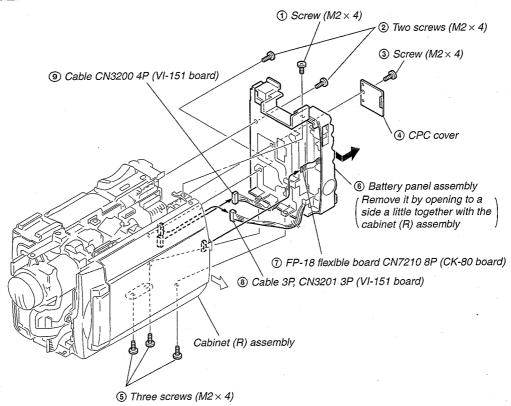


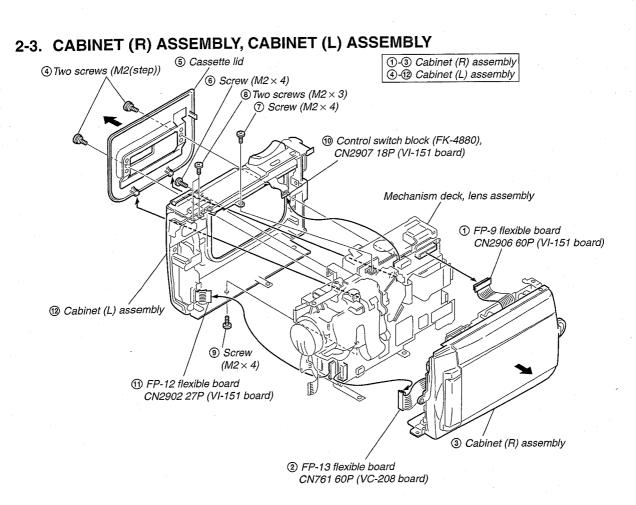
NOTE: Follow the disassembly procedure in the numerical order given.

2-1. CABINET (UPPER) ASSEMBLY, FRONT PANEL ASSEMBLY

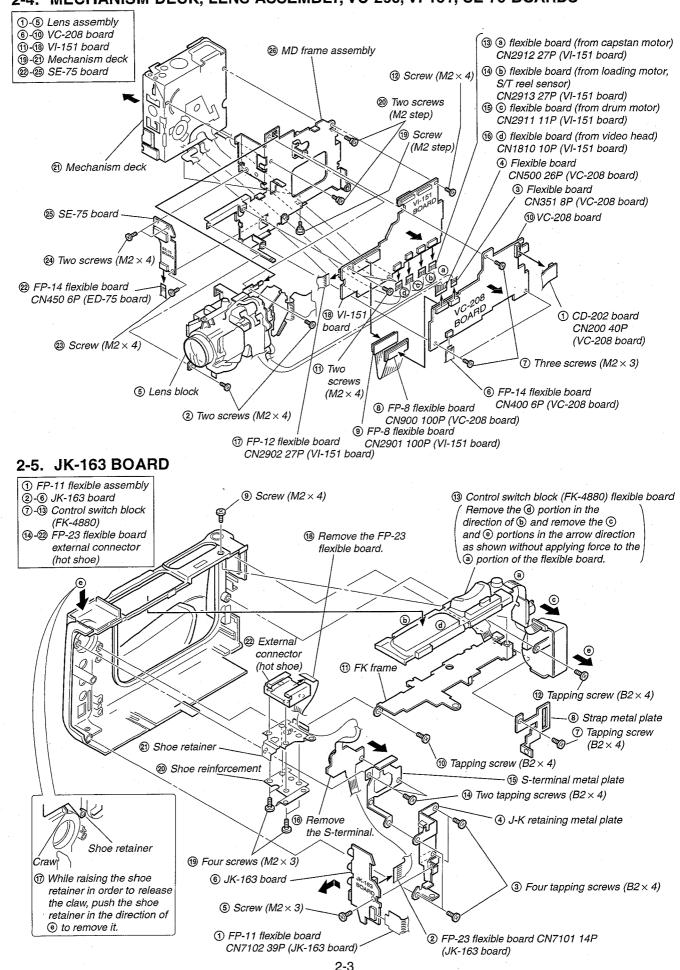


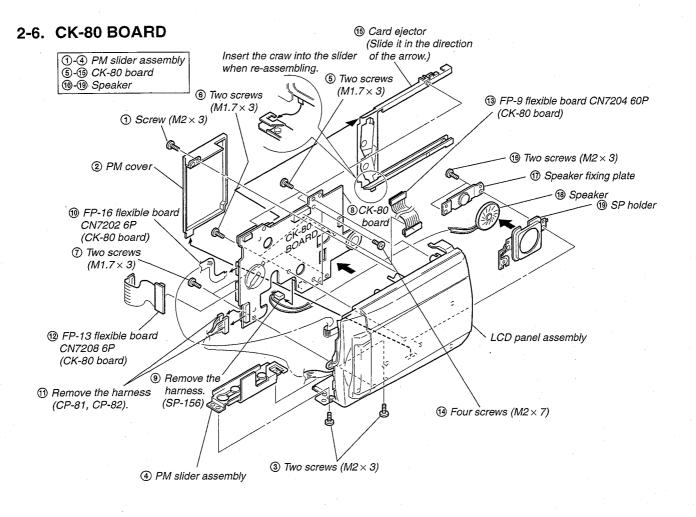
2-2. BATTERY PANEL ASSEMBLY



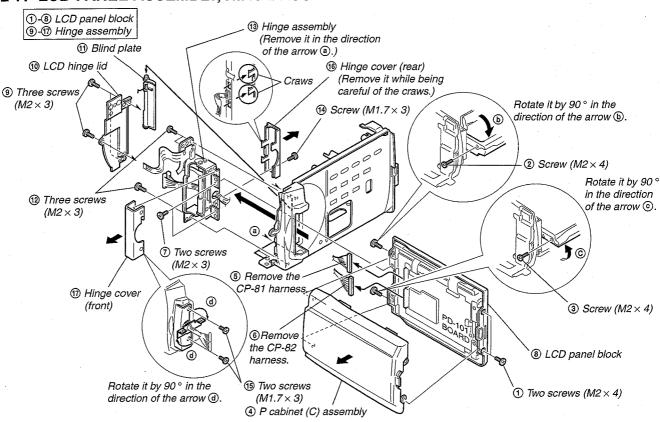


2-4. MECHANISM DECK, LENS ASSEMBLY, VC-208, VI-151, SE-75 BOARDS

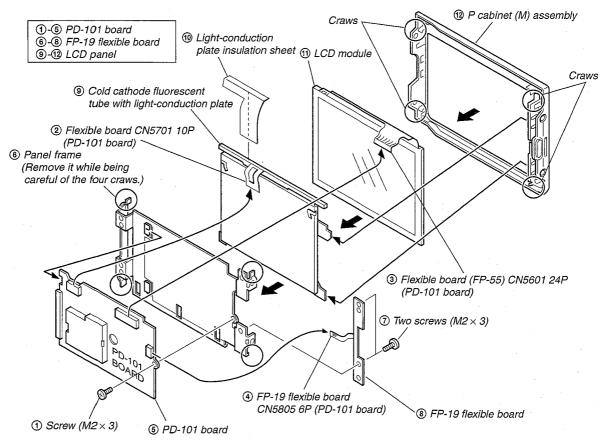




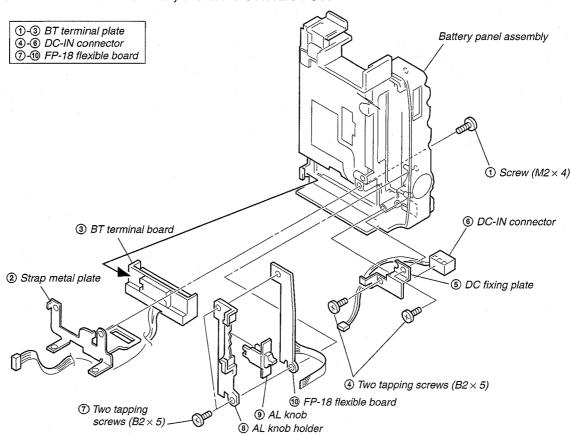
2-7. LCD PANEL ASSEMBLY, HINGE ASSEMBLY

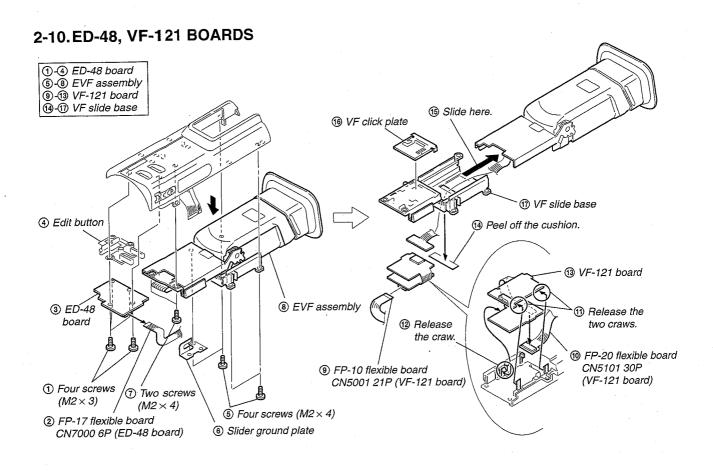


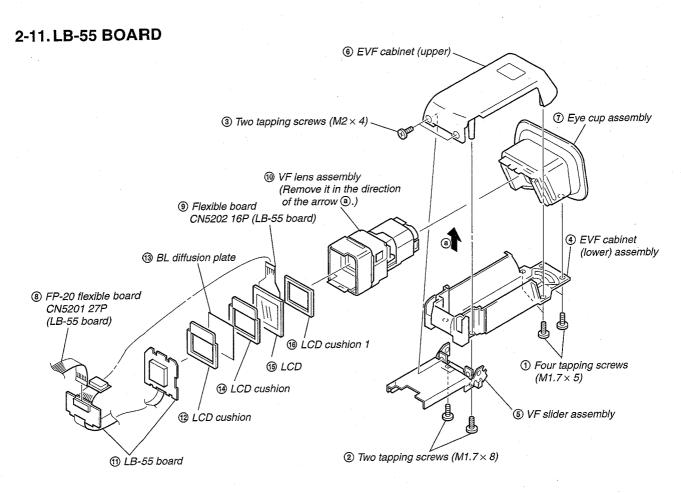
2-8. PD-101 BOARD



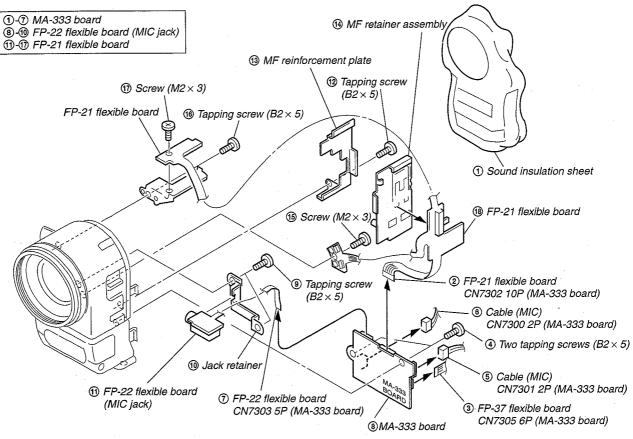
2-9. BT TERMINAL BOARD, DC-IN CONNECTOR



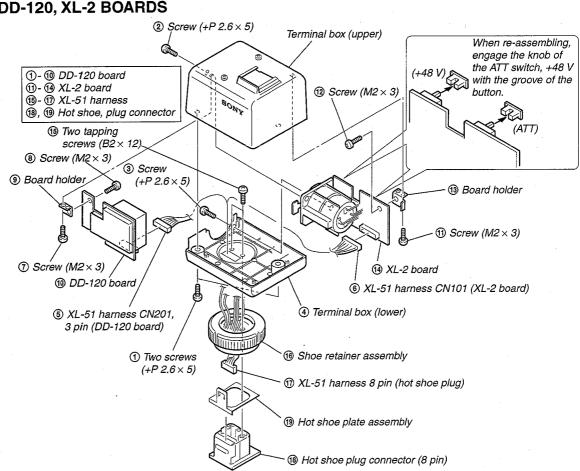




2-12.MA-333 BOARD

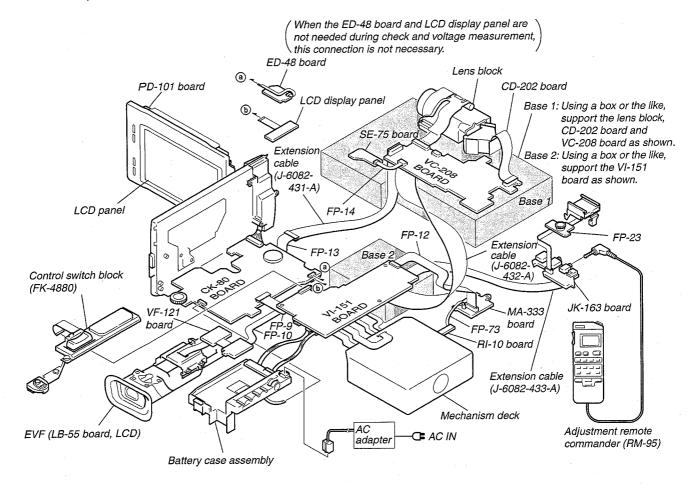


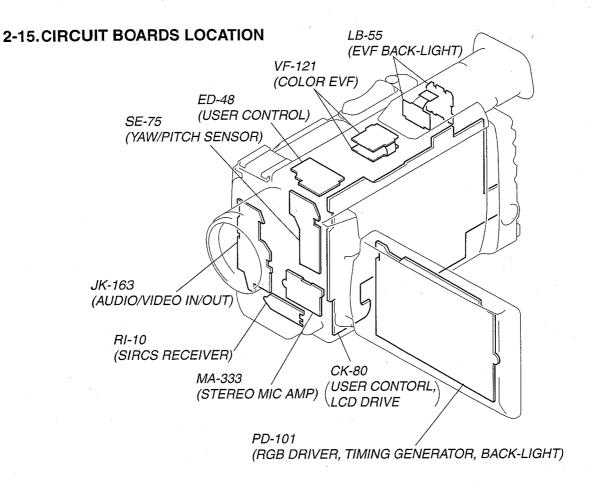
2-13.DD-120, XL-2 BOARDS

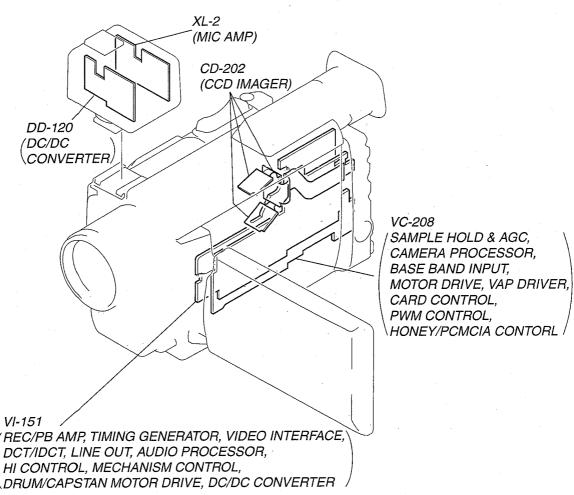


2-14. SERVICE POSITION (Mainly for check and voltage measurement)

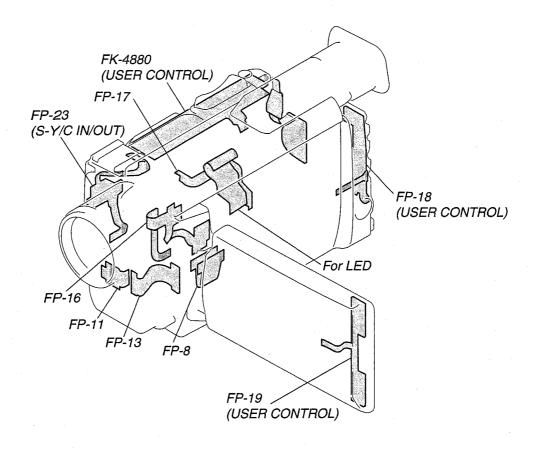
Firstly, remove the following parts referring to DISASSEMBLY (sections 2-1 to 2-6, 2-10 and 2-12), and connect parts as shown below.

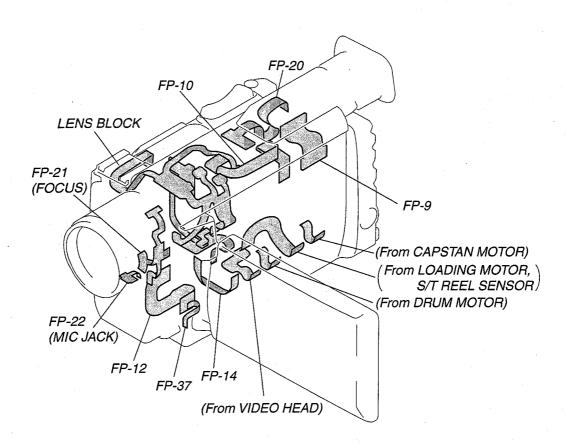




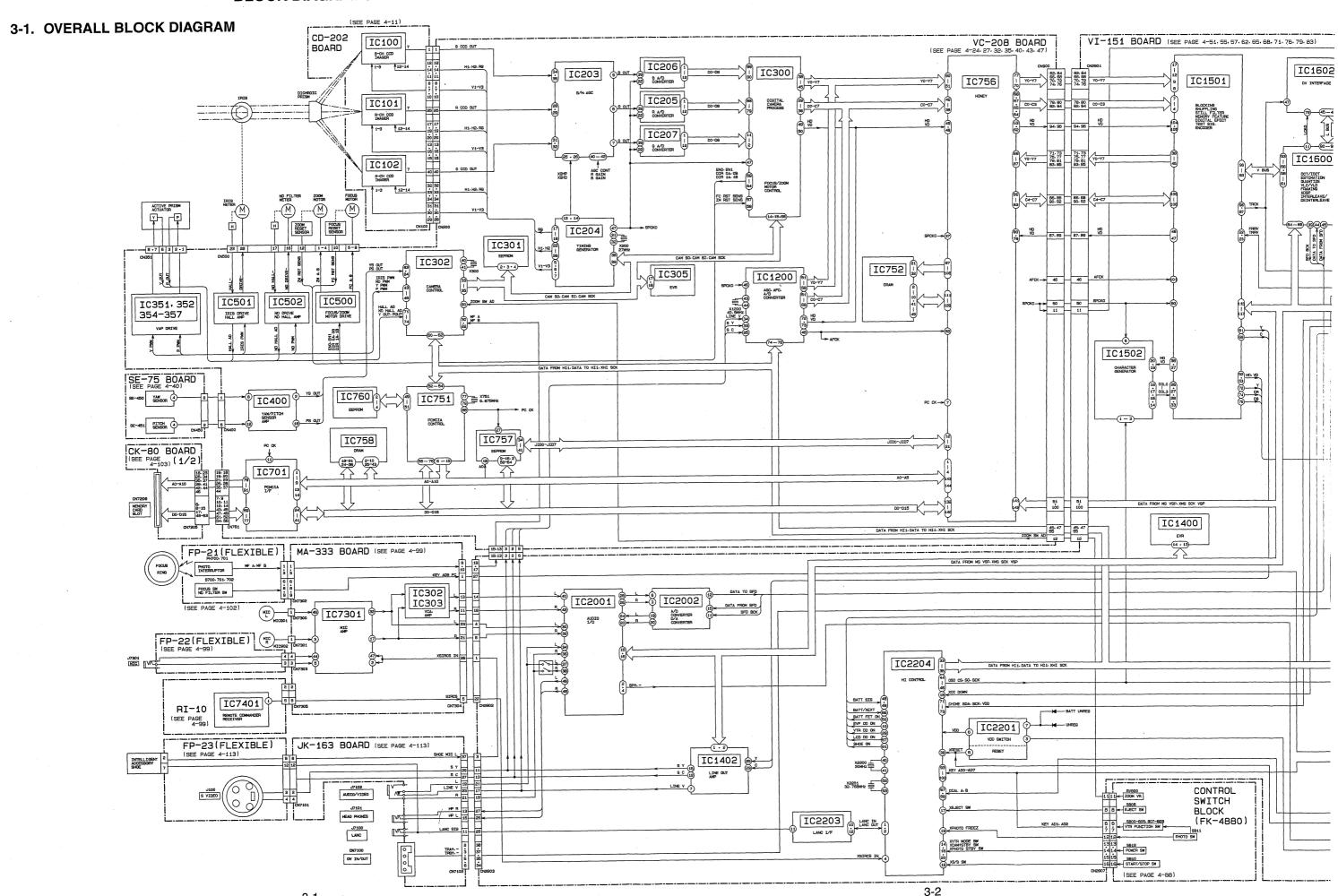


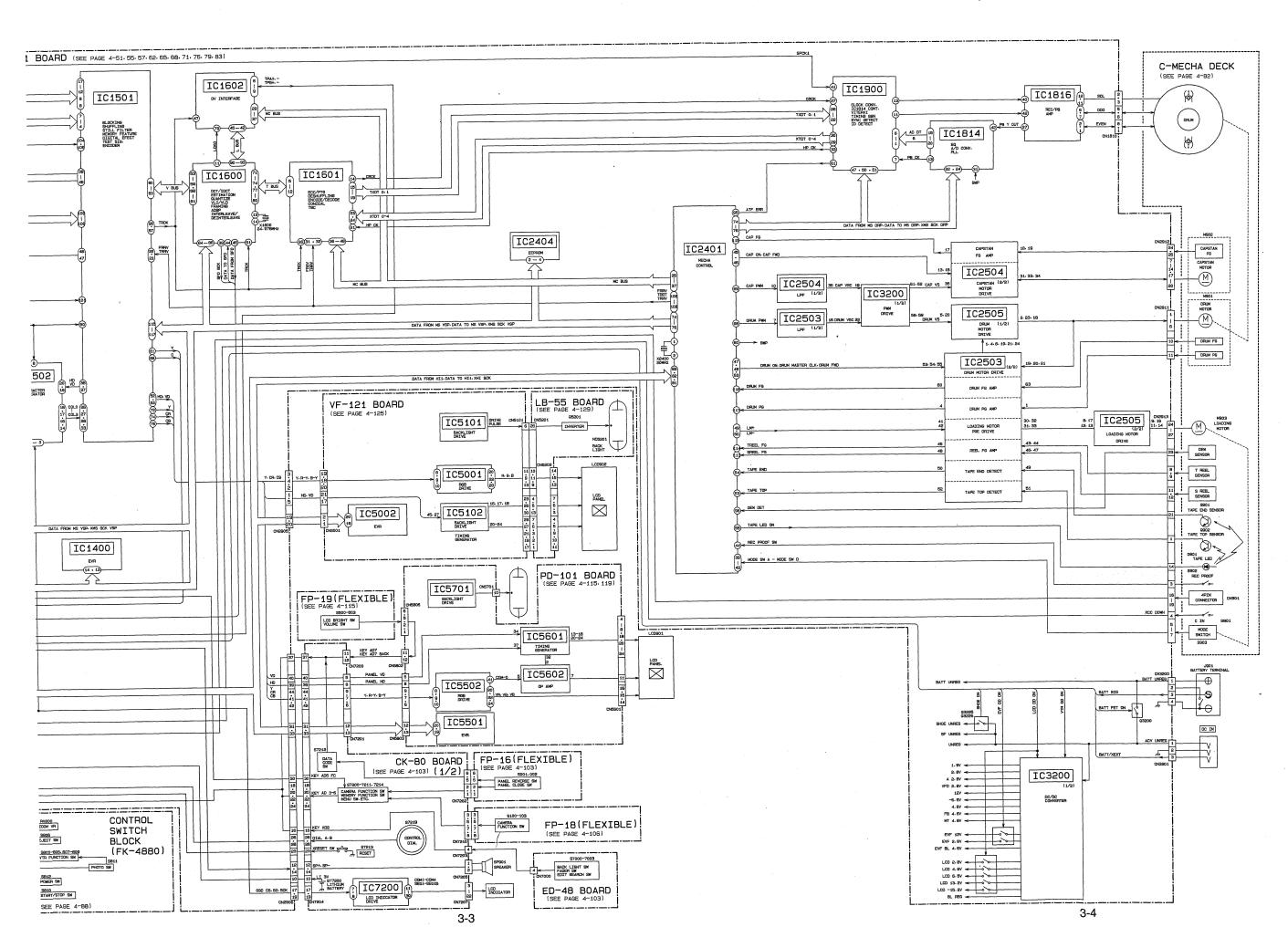
2-16.FLEXIBLE BOARDS LOCATION





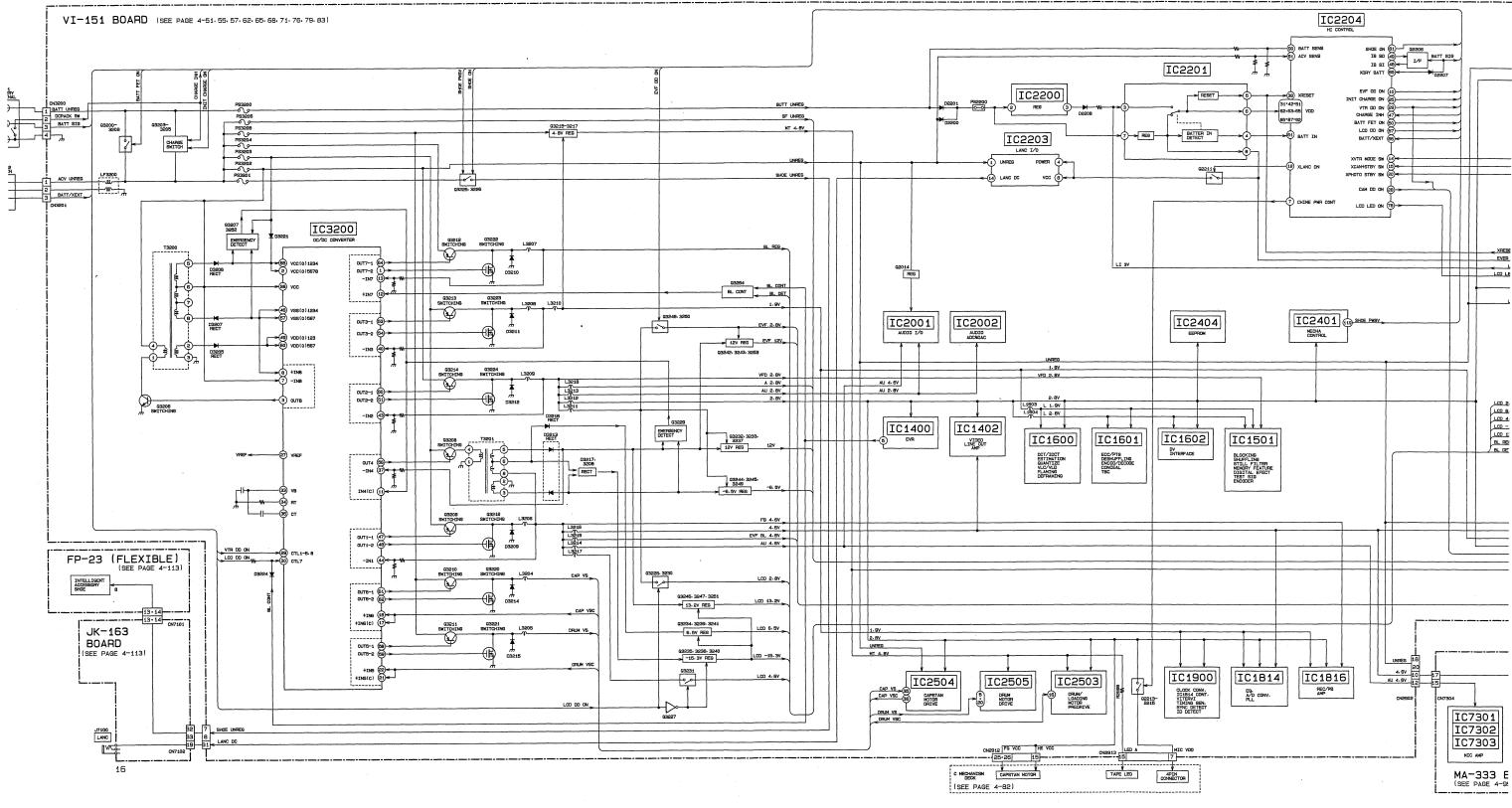
SECTION 3
BLOCK DIAGRAMS

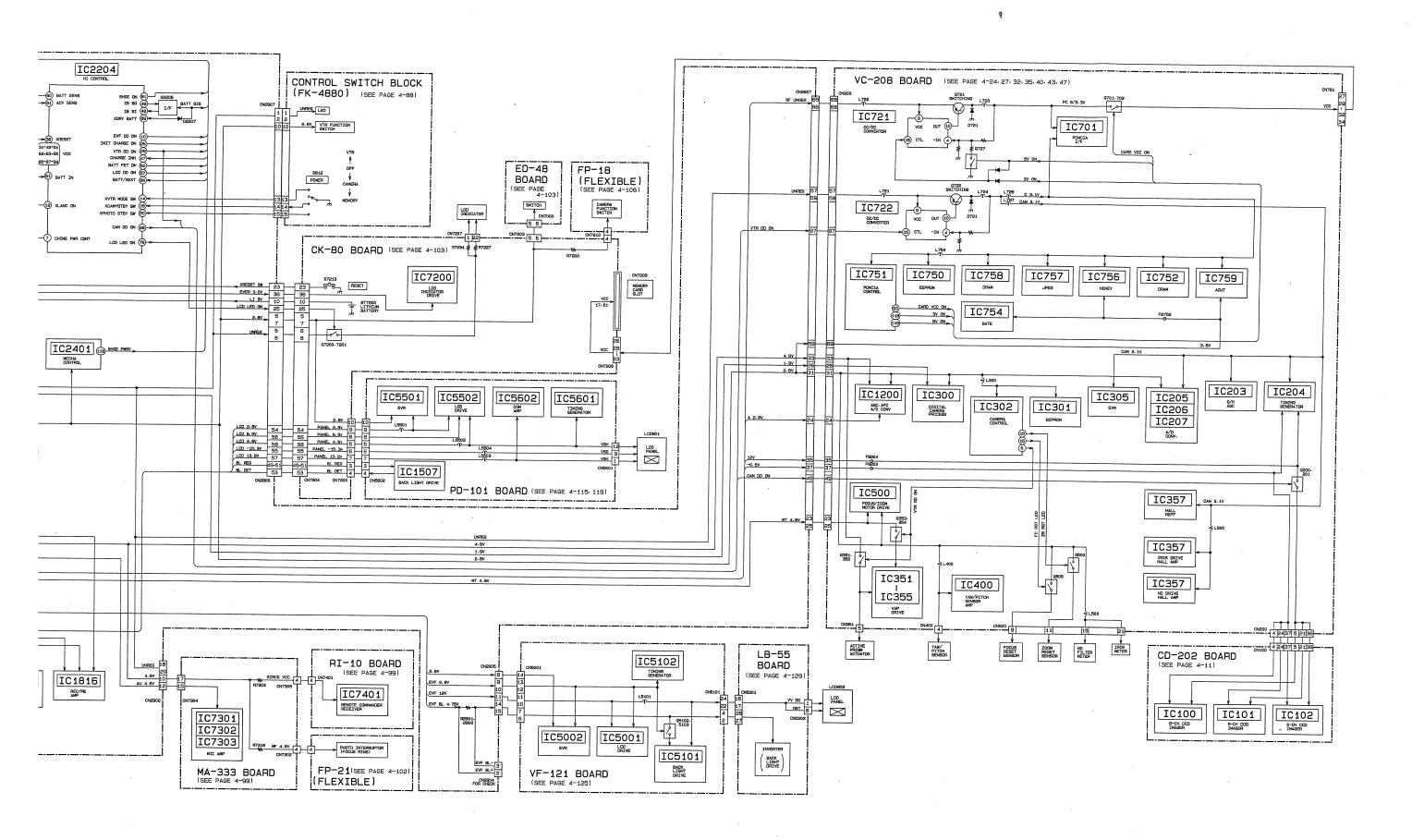




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2. POWER BLOCK DIAGRAM





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4-1

16

PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS 9 12 13 4 5 6 8 10 11 14 4-1. FRAME SCHEMATIC DIAGRAM-1 CD-202 BOARD CN761 60P CN002 60P 60 GND 58 GND 56 D3 54 D4 52 D5 50 D6 GND 59 60 GND GND 57 58 GND GND 55 56 D3 CD1 53 54 D4 D11 51 52 D5 D12 49 50 D6 GND 59 GND 55 GND 55 CD1 53 В 3-CCD IMAGEA **LENS** D11 51 D12 4 D12 49 50 D6 D13 47 48 D7 D14 45 46 CE1 D15 43 44 A10 CE2 41 42 DE VS1 39 40 IORD A9 37 38 IOWA A8 35 36 WE PEADY 33 34 VCC VCC 31 32 VCC VCC 27 28 A7 A6 25 26 VS2 A5 23 24 RESET A4 21 22 WALT UNIT 48 D7 45 CE1 44 A10 42 OE 40 IORD 38 IOWR 36 WE 34 VCC 32 VCC D13 4 D14 45 D15 4 CE2 41 VS1 39 A9 37 AB 35 READY 33 VCC 31 FP-13 VCC 29 26 VS2 24 RESET 22 WAIT A6 25 A5 23 A4 21 A4 21 22 WAIT A3 19 20 A2 REG 17 18 A1 BVD2 15 16 A0 D B Γ D D 4 M C 4 A3 19 | BIASH | HALL | BIASH REG 17 BVD2 15 BVD1 13 14 D0 DB 11 12 D1 D9 9 10 D2 D10 7 B WP BVD1 13 12 D6 10 D5 8 D4 6 D3 4 GND DB 11 D9 9 D10 7 CD2 5 6 GND GND 3 4 GND X3S_LED 1 2 GND 6 GND CD2 5 GND 3 4 GND 2 GND VC-208 BOARD ED-48 BOARD | 39 | 6KD | 30 | 6KD 20 EDITSEARCH -EDITSEARCH -BACK LIGHT FADER G Н FP FLE. Ι FP-14 FLEXIBLE ω 10 4 m 01 -4450 6P YS_BEF GND 2.8V PS_OUT К SE451 (PITCH) FP-8 FLEXIBLE CONTINUED ON PAGE 4-7 SE-75 BOARD

25 27 28 29 24 26 19 20 21 22 23 17 18 16 15 12 13 14 MEMORY CARD SLOT CN7208 60P CN001 60P N002 60P 60 GND 58 GND 56 GND X3S_LED 59 X3S_LED 59 60 GND GND 5 GND 57 58 GND GND 57 GND ! CD2 55 56 GND D10 53 54 WP CD2 55 GND 5 D10 5 54 WP 52 D2 CD1 D9 51 52 D2 D9 51 D11 5 D8 49 50 D1 DB 49 50 D1 48 D0 46 A0 44 A1 D12 4 BVD1 47 BVD1 47 48 D0 BVD2 45 46 A0 REG 43 44 A1 D13 4 D14 45 REG 43 D15 43 42 A2 40 WAIT 38 RESET 36 VS2 34 A7 A3 41 42 A2 A4 39 40 WAIT A5 37 38 RESET A3 4 CE2 41 PD-101 BOARD VS1 39 1/2 RGB BLOCK 2/2 TG BLOCK A5 37 A9 3 A6 35 36 VS2 VCC 33 34 A7 VCC 31 32 VCC VCC 29 30 VCC A6 35 CN5805 6 AB 35 50 VCC 33 KEY_AD7 6 READY 3 VCC 31 KEY\AD7_S1 5 30 VCC CK-80 BOARD VCC 3 ω VCC 29 READY 27 CN5802 12P GND 4 vcc a CN7200 12P LCD BRIGHT + LCD BRIGHT -VOLUME + VOLUME -READY 27 28 VCC

A8 25 26 WE

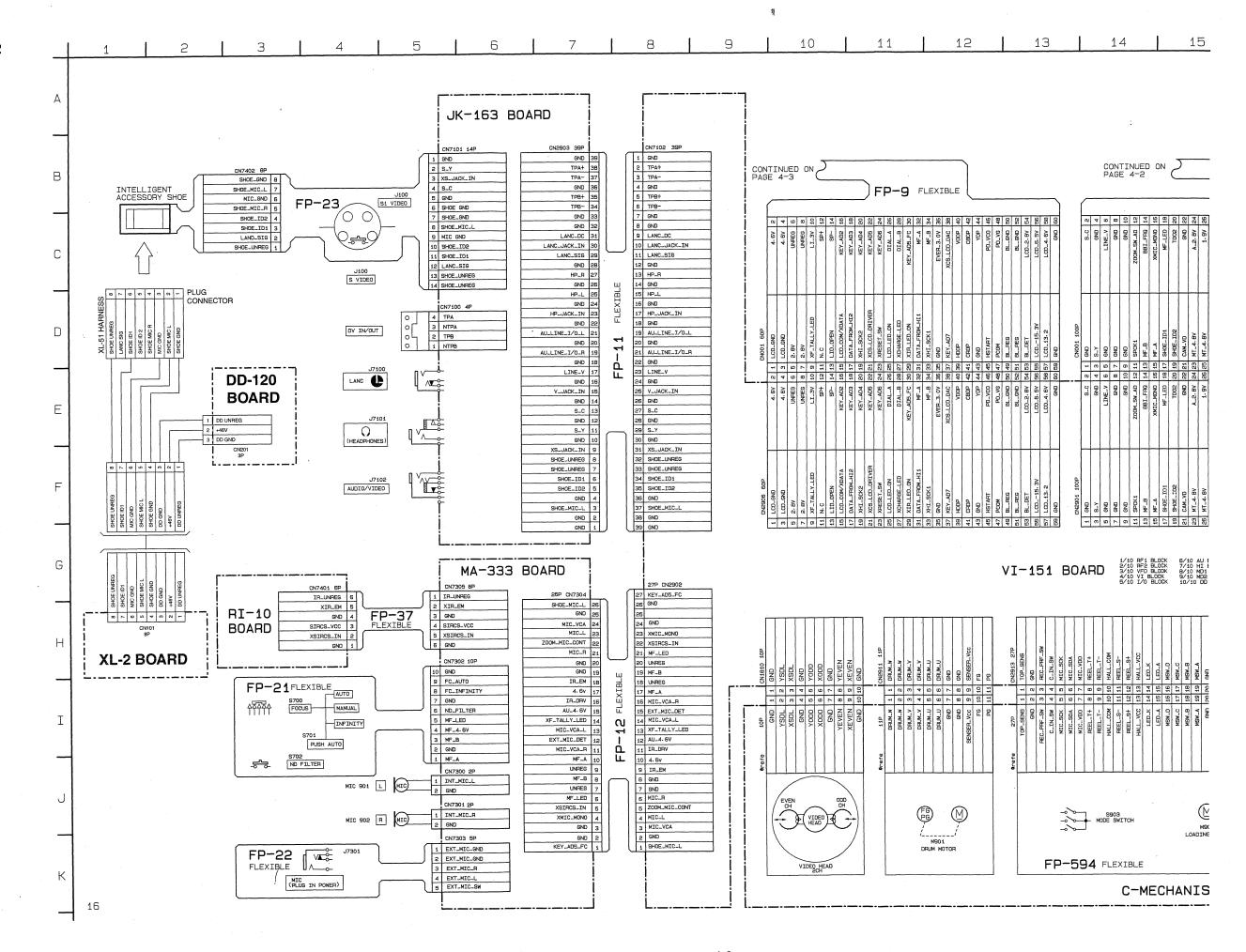
A9 23 24 IOWR

VS1 21 22 IORD

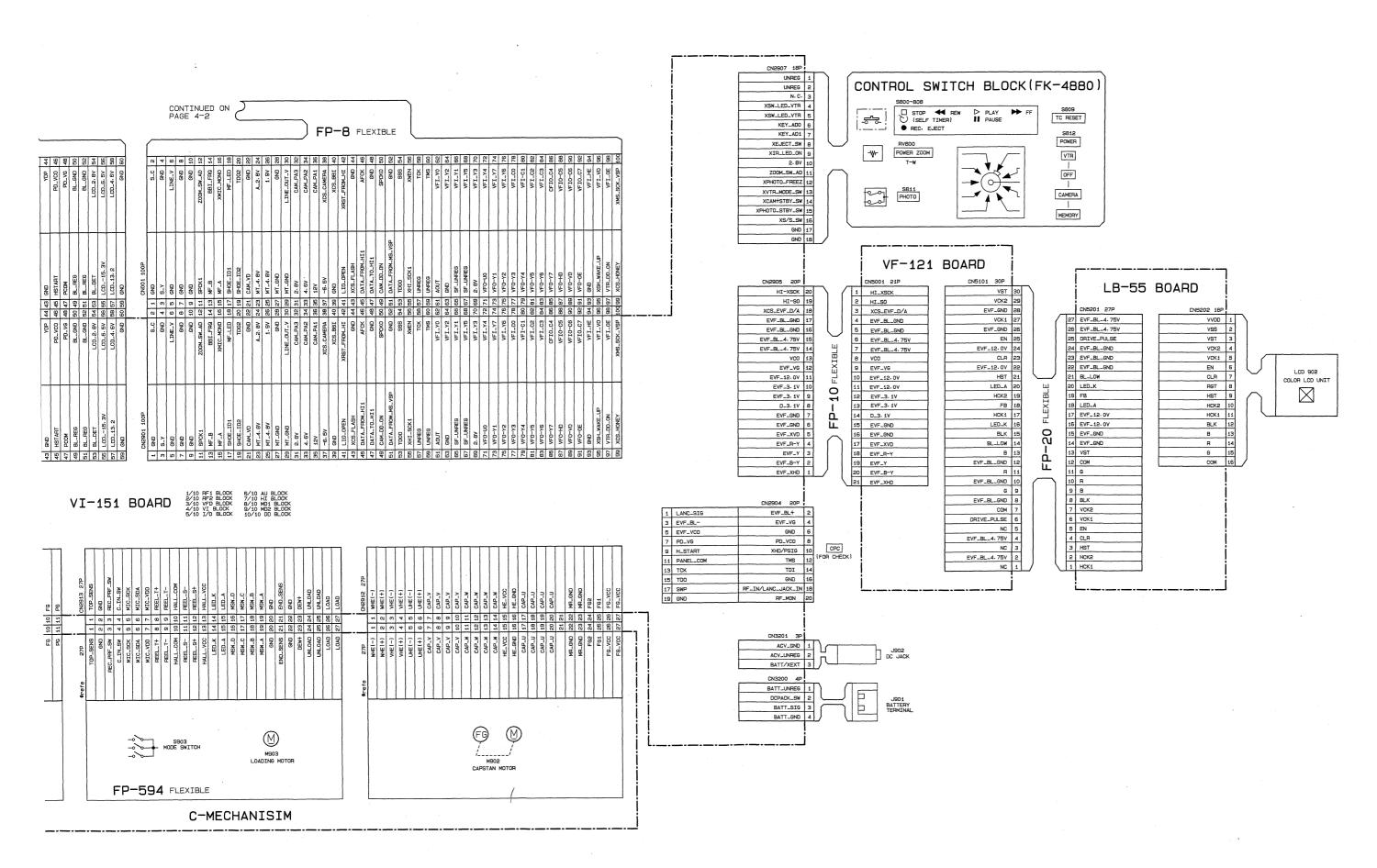
CE2 19 20 0E GND 3 VCC 2 12 KEY_AD7_BACK BL-GND 1 26 WE 24 IOWR AB 25 KEY_AD7_S2 2 11 KEY_AD7 A6 2 BL-GND 2 A9 23 KEY_AD7_S3 1 S7000~7209+S7211~7213 A5 2 ш BL-REG 3 10 2. BV VS1 21 CE2 19 2 CN5601 24P A4 2 MEMORY PLAY, MEMORY INDEX, MEMORY DELETE, MEMORY+, MEMORY-, PICTURE EFFECT, DIGIATL EFFECT, TITTLE, MENU, RESET, DATA CODE, DISPLAY, END SEARCH 9 PANEL_2-BV BL-DET 4 CP-81 PANEL_4.6V PANEL_6.5V VSH/VSH/CLD 24 VSH/VSH/ULD |24 CS/VDD/SPD |23 VR/VR/CTR |22 VB/VB/EX3 |21 VG/VG/EX2 |20 VSS/VSS/VB12 |19 MODE1/MODE1/MES |18 HARNESS D15 17 18 A10 D15 17 REG : 18 A10 PANEL_-15, 3V 6 7 PANEL_13. 2V D14 15 16 CE1 D14 15 BVD2 1 16 CE1 PANEL_13. 2V 6 PANEL_-15.3V BVD1 1 5 PANEL_4. 6V PANEL_6.5V 8 D13 13 14 D7
D12 11 12 D6
D11 9 10 D5
CD1 7 8 D4
GND 5 6 D3 12 D6 10 D5 8 D4 6 D3 4 GND 2 GND D12 1 DB 1 S7210, S7214 ZEBRA AUTO LOCK PANEL_2. BV 9 4 BL_DET D11 9 D9 9 2. BV 10 3 BL_REG CD1 7 D10 7 2 BL_GND KEY_AD7 1 GND 5 CD2 E KEY_AD7_BACK BL_GND MCLK/MCLK/TST 17 GND 3 4 GND GND 3 HCNT/HCNT/VR 16 0E/CLR/VG 15 SRTL/0E/VB 14 GND 3 X3S_LED 1 GND 1 2 GND CN5803 13P CN7201 13P S7219 SEL/PUSH EXEC VCO_VOLTAGE 1 13 XHI_SCK1 LCD901 3.5INCH COLOR LCD UNIT Ó SRTM/SRTL/GND 13 HSY 12 DATA_FROM_HI1 SRTR/SRTR/VSH 12 PANEL_COM : XCS_LCD_DAC ED-48 BOARD VBC/VBC/COM 11 PANEL_VG -CP-82 VCOM/VCOM/VGL 10 50 CN7000 6P PANEL_XVD 5 PANEL_Y HARNESS GND 1 MODE2/MODE2/VSS 9 PANEL_B-Y PANEL_XHD GND 2 2 GND BT7200 V/L RICHARGEABL BATTERY PANEL_R-Y PANEL_R-Y RESET/RESET/MO2 8 FP-17 N.C 3 PANEL_XHD PANEL_B-Y GSRT/GSRT/M01 7 KEY_AD2 4 4 KEY_AD2 PANEL_Y 9 5 PANEL_XVD GPCK/GPCK/EX1 6 2. BV 5 5 2.8V GRES/GRES/SPS 5 PANEL_VG GND 10 2. BV 6 VREFL/VREFL/CLS 4 XCS_LCD_DAC DATA_FROM_HI1 2 HSY VGL/VGL/VCC 3 VDD/VREFH/VSH 2 CN7202 6P XHI_SCK1 13 VCO_VOLT VGH/VGH/VGH 1 PANEL REV FP-16 CN7202 24P 2 PANEL REV CN5701 10P BL_GND 24 FLEXIBLE BL_HIGH 10 BL_VDD 23 S001-002 COM4 2 5 PANEL CLOSE N.C B сомз ND5201 BACK LIGHT 6 PANEL CLOSE N. C 7 (PANEL REV. PANEL CLOSE) SEG15 2 N-C 6 SEG16 19 N.C 5 SEG1 N-C 4 SEG14 CN7210 BP BL_LOW 3 SEG13 16 LED 2 FP-18 SEG12 1 2 GND LED_GND 1 SEG11 14 EXPOSURE 3S_LED_2. 8V SEG10 13 SEG9 12 X3S_LED SHUTTER SPEED WHITE BALANCE PROGRAM AE EXPOSURE SEGB 1 SHUTTER WHT BAL SEG7 10 SEG6 9 P. AE FP-55 FLEXIBLE LCD903 SEG5 8 SEG4 7 SEG3 6 SEG2 5 | CD. 4. 6V | CD. COM2 4 COM1 3 BL_GND 2 SP-156 CN7205 2P HARNESS SP+ 1 SP901 SPEAKER

FP-9 FLEXIBLE

AME SCHEMATIC DIAGRAM-2



. | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29



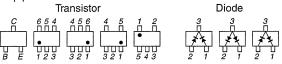
DSR-PD100/PD100P

4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR WIRING BOARDS AND SCHEMATIC DIAGRAMS (In addition to this, the necessary note is printed in each block)

(For printed wiring boards)

- Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)
- Through hole is omitted.
- · Circled numbers refer to waveforms.
- There are few cases that the part printed on diagram isn't mounted in this model.
- Chip parts.

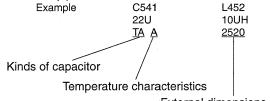


(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μμF. 50V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10W unless otherwise noted.
- $k\Omega = 1000\Omega$, $M\Omega = 1000k\Omega$.
- Caution when replacing chip parts.

New parts must be attached after removal of chip. Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.

Some chip part will be indicated as follows.



External dimensions (mm)

 Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.

In such cases, the unused circuits may be indicated.

- Parts with ★ differ according to the model/destination.
- Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Signal name

 $X \to DIT \to DIT PB/XREC \to PB/\overline{REC}$

- - : non flammable resistor
- two : fusible resistor
 panel designati : panel designation
- : B+ Line *
- --- : B- Line *
- : IN/OUT direction of (+,-) B LINE. *
 : adjustment for repair. *
- Circled numbers refer to waveforms. *
- * Indicated by the color red.

Note:

The components identified by mark △ or dotted line with mark \triangle are critical for safety.

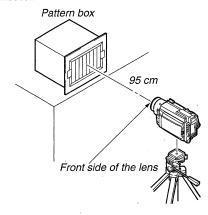
Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

(Measuring conditions voltage and waveform)

- Voltages and waveforms are measured between the measurement points and ground when camera shoots color bar chart of pattern box. They are reference values and reference wave-
- (VOM of DC 10 MW input impedance is used.).
- Voltage values change depending upon input impedance of VOM
- 1. Connection



2. Adjust the distance so that the output waveform of Fig. a and the Fig. b can be obtain.

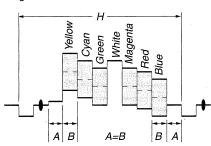


Fig. a (Video output terminal output waveform)

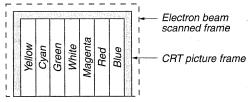


Fig.b (Picture on monitor TV)

- 3. The LINE REC waveform shows the waveform when the color for signal (video signal) is input from a color bar pattern.
- The LINE OUT waveform shows the waveform when the signals are connected to the S-VIDEO and VIDEO/AUDIO jacks but not to other jacks.

When indicating parts by reference number, pleas include the board name.

CD-202 BOARD CD-202 (CCD IMAGER) PRINTED WIRING BOARD — Ref. No. CD-202 Board; 10,000 Series — CD-202 BOARD (SIDE B) CD-202 BOARD (SIDE A) F (B) Ε D C В 1-670-994-1-670-994-(G) A 10 6 3

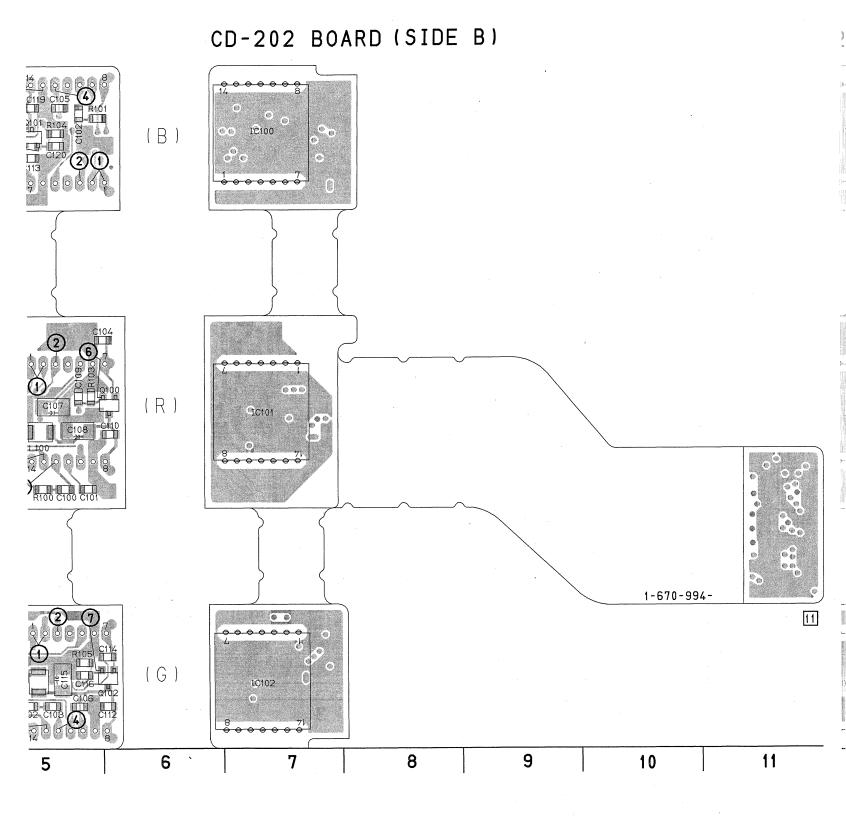
C100 C-5
C101 C-5
C102 F-5
C103 A-5
C104 D-5
C105 F-5
C106 A-5
C107 C-5
C108 C-5
C109 C-5
C110 C-6
C111 A-5
C112 A-6
C113 E-5
C114 A-6
C115 A-5
C116 A-5
C117 F-5
C116 F-5
C119 F-5
C120 E-5 L100 L101 L102 Q100 Q101 Q102 R100 R101 R102 R103 R104 R105

For printed wiring

This board is six-k terns of layers two the diagram.

Chip parts

There are few ca diagram isn't mc



CD-202 BOARD

CN100 B-1

C100 C101 C102 C103 C104 C105 C106 C107 C108 C109 C110 C111 C112 C113 C114 C115 C116 C117 C118 C119 C120 IC100 F-7 IC101 C-7 IC102 A-7 L100 C-5 L101 A-5 L102 E-5 Q100 Q101 Q102 C-6 F-5 A-6 R100 C-5 R101 F-5 R102 A-5 R103 C-5 R104 F-5 R105 A-5

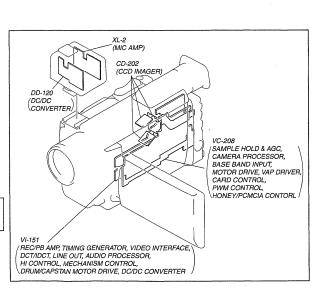
For printed wiring boards

• This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.

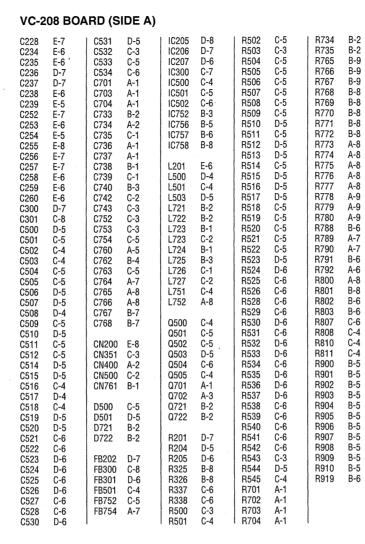
• Chip parts

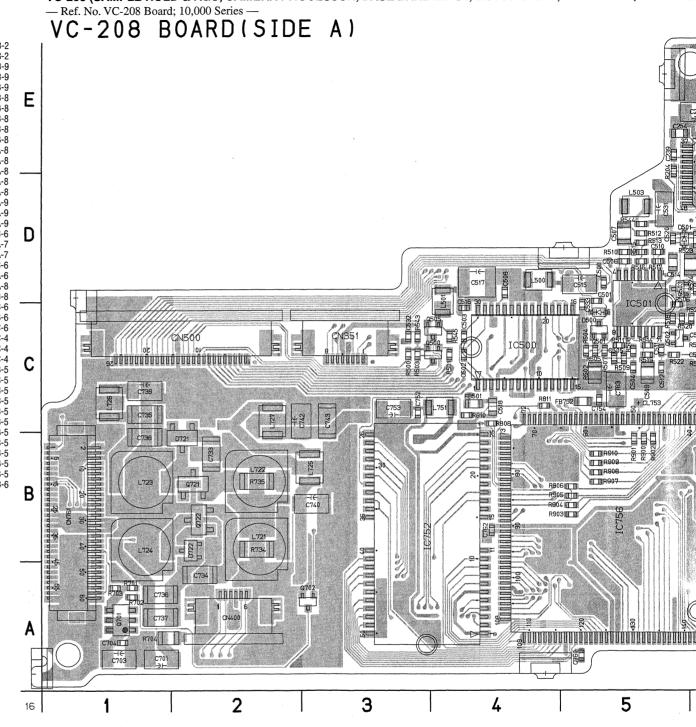
Transistor

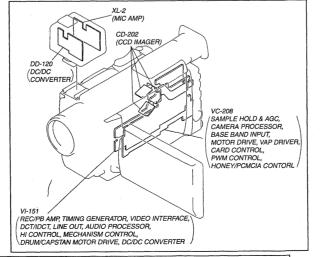
There are few cases that the part printed on this diagram isn't mounted in this model.



VC-208 (SAMPLE HOLD & AGC, CAMERA PROCESSOR, BASE BAND INPUT, MOTOR DRIVE, VAP DRIVER, CARD CONT







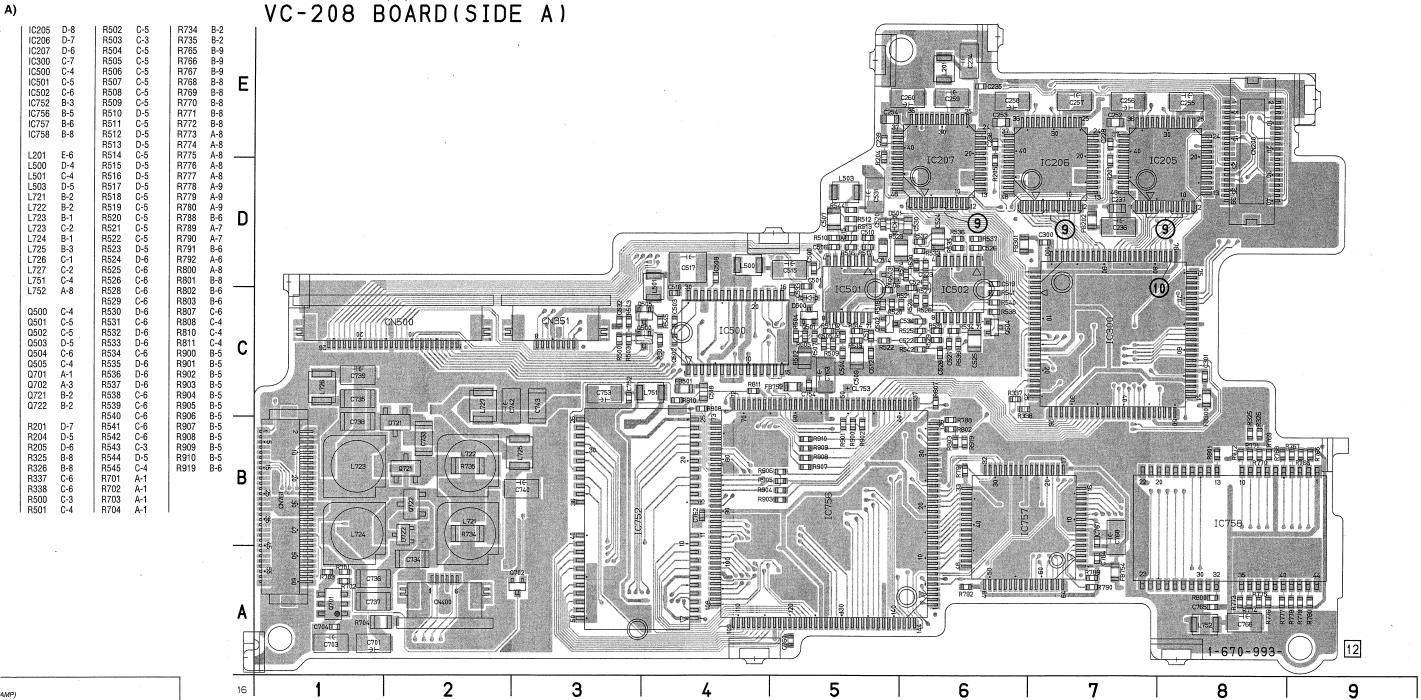
For printed wiring boards

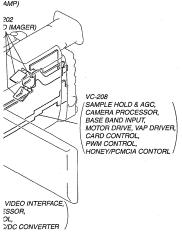
- This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.
- Chip parts

Transistor Diode

There are few cases that the part printed on this diagram isn't mounted in this model.

VC-208 (SAMPLE HOLD & AGC, CAMERA PROCESSOR, BASE BAND INPUT, MOTOR DRIVE, VAP DRIVER, CARD CONTROL, PWM CONTROL, HONEY, PCMCIA CONTROL) PRINTED WIRING BOARD — Ref. No. VC-208 Board; 10,000 Series —





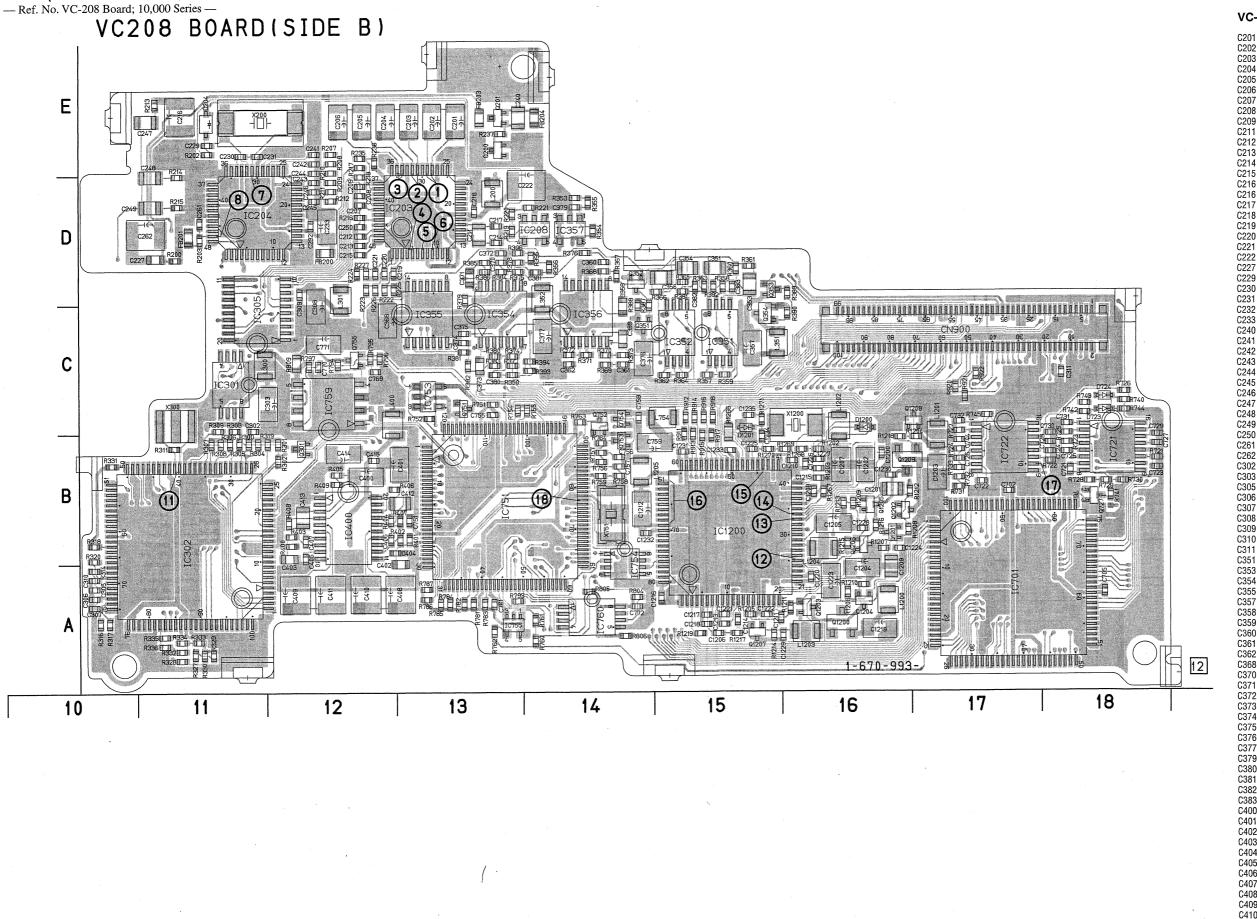
For printed wiring boards

- This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.
- Chip parts

Transistor Diode

There are few cases that the part printed on this diagram isn't mounted in this model.

VC-208 (SAMPLE HOLD & AGC, CAMERA PROCESSOR, BASE BAND INPUT, MOTOR DRIVE, VAP DRIVER, CARD CONTROL, PWM CONTROL, HONEY, PCMCIA CONTROL) PRINTED WIRING BOARD

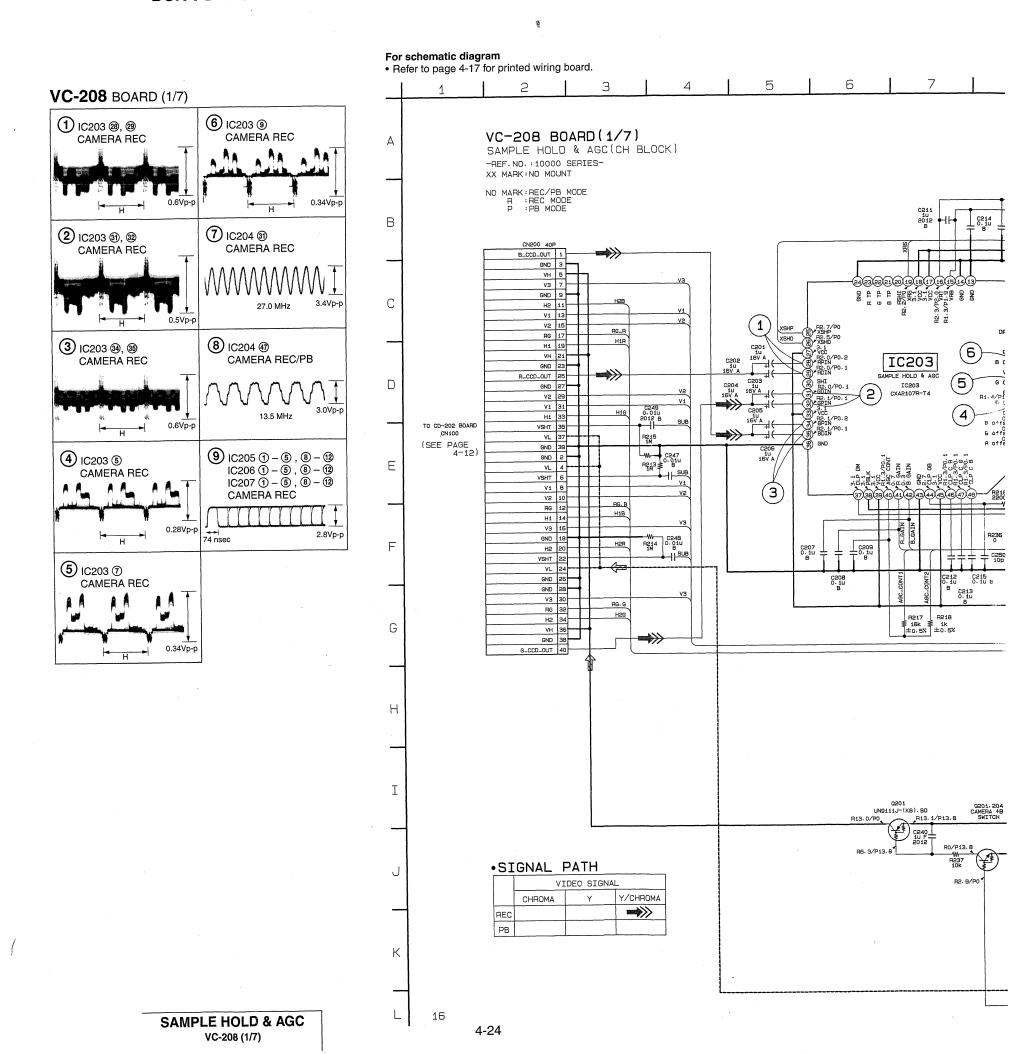


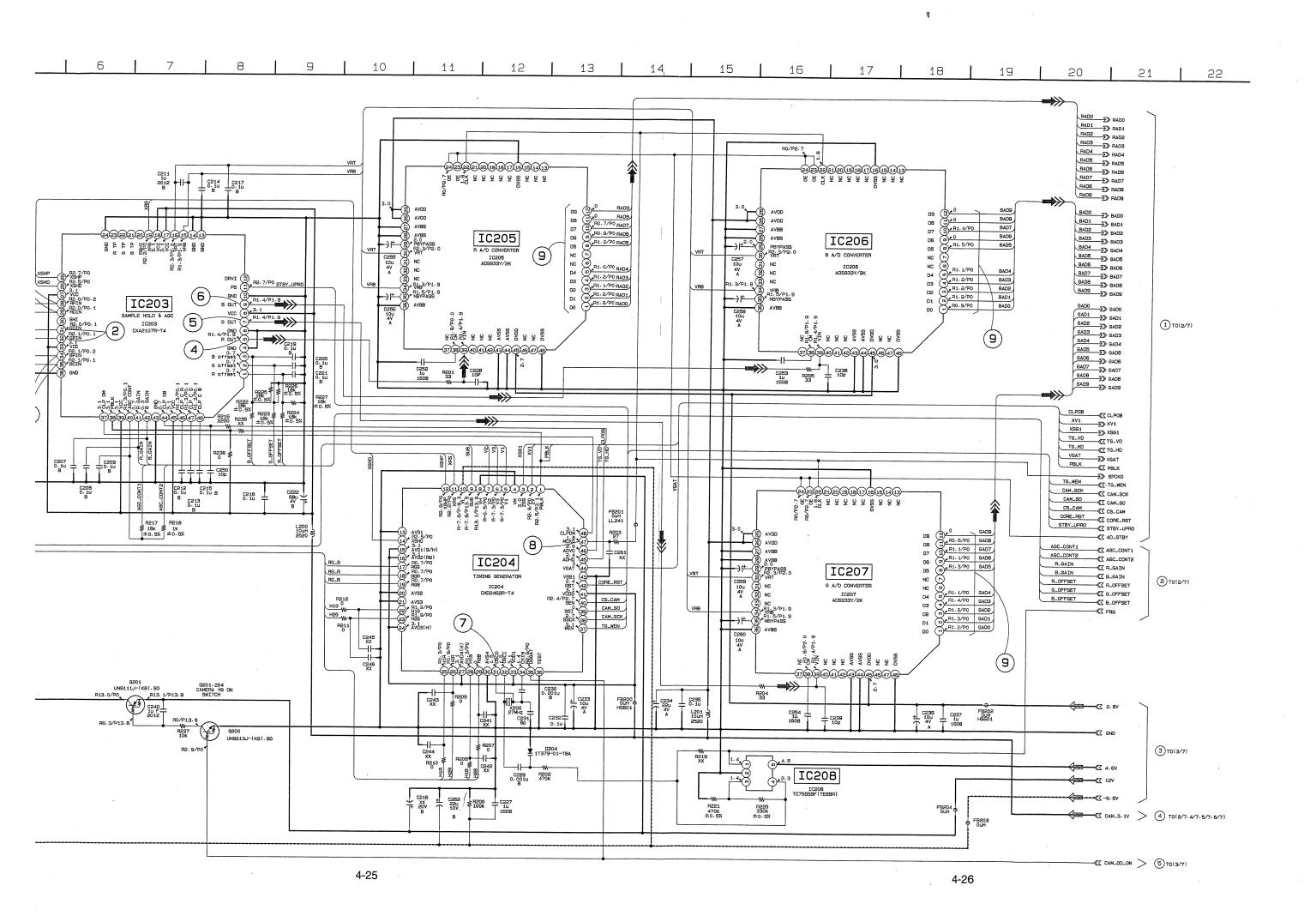
VC-208 BOARD (SIDE B)

| -20 | 08 BC | DARD (SI | IDE B) | | | |
|--|--|----------|---|---|--|--|
| -22 12345678911234566789012790112301123456789011233456789011334578901123345679011234567890 | D8 BC E-133 E-132 E-1212 E-1212 E-132 E-133 E-134 E-135 E-1 | C411 | ID A-132122788B-1888-1888-1888-1888-1888-1888-1888- | IC302 IC305 IC351 IC352 IC354 IC355 IC356 IC357 IC400 IC701 IC722 IC751 IC755 IC759 IC760 IC1200 IC1200 | BCCCCCCDBAABBBCAACAB DCDCDCCABBCABB EEBBCDDCBCABBACABBAAABBBAACBB DEDDCBCDDDDDDDDDDDDDDDDDDDDDDDDDDDDD | R300 R300 R300 R300 R300 R300 R300 R300 |
| 0 | A-12 | I IC301 | C-11 | 1 R237 | E-13 | ⊢ R723 |
| | | | | | | |

| VC-208 | BOARD | (SIDE | B) |
|--------|-------|-------|----|

| C201 C202 C203 C204 C205 C206 C207 C208 C209 C211 C212 C213 C214 C215 C216 C216 C217 C229 C230 C221 C222 C233 C240 C221 C222 C233 C240 C241 C242 C243 C244 C245 C246 C247 C248 C240 C241 C242 C243 C241 C245 C246 C247 C248 C249 C250 C303 C304 C310 C355 C355 C3557 C358 | E-13 E-13 E-12 E-12 D-12 D-12 D-12 D-12 D-13 D-12 D-13 D-12 D-13 D-12 D-14 D-13 D-12 D-14 D-15 D-14 D-15 D-17 D-17 D-18 D-19 D-19 D-19 D-19 D-19 D-19 D-19 D-19 | C411 | IC302 B-11 IC355 C-15 IC352 C-15 IC354 C-13 IC356 C-14 IC357 D-14 IC721 B-18 IC722 B-17 IC751 B-13 IC755 A-13 IC755 A-13 IC755 A-13 IC755 A-13 IC750 C-12 IC760 A-14 IC1200 B-15 L200 D-13 L300 D-13 L300 C-11 L301 D-12 L351 C-15 L352 D-14 L400 C-12 L754 C-15 L1201 B-17 L1202 B-16 L1201 B-17 L1202 B-16 L1203 A-16 L1204 B-16 L1204 B-16 L1205 B-14 IC352 D-14 IC352 D-14 IC352 D-14 IC353 D-15 IC353 D-15 IC354 C-15 IC353 D-15 IC354 C-15 IC353 D-15 IC354 C-15 IC355 C-12 IC300 A-16 IC301 B-16 IC302 B-16 | R300 | R762 A- R763 C- R764 B- R7864 B- R787 A- R788 A- R788 A- R788 A- R787 A- R798 C- R796 C- R797 C- R804 A- R805 A- R806 A- R809 C- R911 B- R912 C- R913 B- R914 C- R913 B- R914 C- R913 B- R914 C- R915 B- R916 C- R917 B- R916 C- R917 B- R916 C- R917 B- R918 C- R921 C- R922 C- | -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 |
|--|--|--|--|---|--|---|
| C231 C232 C233 C240 C241 C242 C243 | E-11 D-12 D-12 E-13 E-12 E-12 D-12 | C759 B-15 C761 A-13 C769 C-12 C770 C-12 C771 C-12 C772 A-14 C1200 B-16 | L400 C-12 L754 C-15 L1200 A-16 L1201 B-17 L1202 C-16 L1203 A-16 L1204 B-16 | R335 A-11 R336 A-11 R350 C-13 R353 D-14 R355 D-14 R355 D-14 | R762 A- R763 C- R764 B- R781 A- R782 A- R783 A- | -14 -14 -14 -13 -13 |
| C245 C246 C247 C248 C249 C250 | D-12 D-12 E-11 D-11 D-11 D-12 | C1202 B-16 C1203 B-17 C1204 A-16 C1205 B-16 C1206 A-15 C1207 B-16 | Q200 E-13 Q201 E-13 Q301 B-12 Q351 C-14 Q352 D-14 Q353 D-15 | R358 D-15 R359 C-15 R360 D-15 R361 D-15 R362 C-15 R363 D-15 R364 C-15 | R785 A- R786 A- R787 A- R793 A- R794 C- R795 C- R796 C- | -13 -13 -13 -12 -12 |
| C262 C302 C303 C305 C306 C307 C308 | D-11 C-11 C-12 A-10 A-10 A-10 C-12 | C1209 A-16 C1210 B-16 C1211 A-16 C1212 B-14 C1213 A-15 C1214 A-15 C1215 B-16 | Q354 C-15 Q727 B-18 Q751 C-13 Q752 C-14 Q753 B-14 Q754 C-14 Q755 C-12 | R365 D-15 R366 D-15 R367 D-14 R368 D-14 R369 C-14 R370 C-14 R371 C-14 | R797 C- R804 A- R805 A- R806 A- R809 C- R911 B- R912 C- | -12 -14 -14 -12 -15 -15 |
| C310 C311 C351 C353 C354 C355 C357 | A-10 C-18 D-15 D-15 D-15 D-15 C-15 | C1217 A-15 C1218 A-15 C1219 A-16 C1220 A-16 C1221 A-15 C1222 A-15 C1223 A-16 | Q1201 B-16 Q1202 B-16 Q1203 A-16 Q1204 A-16 Q1205 B-16 Q1206 B-16 Q1207 A-15 | R373 C-14 R374 C-13 R375 D-13 R376 D-14 R377 C-13 R378 D-13 R379 D-13 | R914 C- R915 B- R916 C- R917 B- R918 C- R920 C- R921 C- | -16 -16 -16 -16 -16 -17 |
| C359 C360 C361 C362 C368 C370 C371 | C-14 D-14 C-14 C-14 C-12 D-13 D-13 | C1225 B-15 C1226 B-16 C1227 B-16 C1228 B-16 C1229 A-16 C1230 B-16 C1231 B-15 | Q1209 B-16 R200 D-11 R202 E-11 R203 D-11 R207 E-12 R208 E-12 | R381 C-13 R382 C-13 R383 C-13 R384 D-13 R385 D-13 R386 D-13 R387 C-14 | R1202 B- R1203 B- R1204 B- R1205 A- R1206 A- R1207 B- R1208 B- | -1; -16 -16 -17 -16 -16 -16 |
| C372 C373 C374 C375 C376 C377 C379 | D-13 C-13 C-13 C-13 C-14 C-14 D-14 | C1232 B-14 C1233 B-15 C1234 B-15 C1235 C-15 CN900 C-17 | R209 D-12 R210 E-12 R211 D-12 R212 D-12 R213 E-11 R214 D-11 R215 D-11 | R389 D-16 R390 C-16 R391 D-15 R392 D-15 R393 C-14 R394 C-14 | R1210 A- R1211 A- R1212 B- R1213 B- R1214 A- R1216 B- | ,-10 ,-10 ,-10 ,-10 ,-10 |
| C380 C381 C382 C383 C400 C401 C402 | C-13 D-14 D-15 D-15 B-12 B-13 A-13 | D204 E-11 D723 C-18 D724 C-18 D1200 C-16 D1201 C-15 FB200 D-12 | R216 D-12 R217 E-12 R218 D-12 R219 D-13 R220 D-13 R221 D-14 R222 D-12 | R395 D-14 R396 D-13 R400 B-12 R401 B-13 R402 B-13 R403 B-12 R404 B-12 | R1218 B- R1219 A- R1266 B- R1267 B- R1268 B- | (-1) (-1) (-1) (-1) (-1) (-1) |
| C403 C404 C405 C406 C407 C408 C409 | B-12 B-12 B-12 B-12 B-12 A-13 A-12 | FB201 D-11 FB203 E-13 FB204 E-14 IC203 D-13 IC204 D-11 IC208 D-14 | R223 D-12 R224 D-12 R225 D-12 R226 D-12 R227 D-12 R235 E-12 R236 E-12 | R405 B-12 R406 B-12 R407 B-13 R408 B-12 R409 B-12 R721 B-18 R722 B-18 | R1271 C X1200 C X200 E X300 C | 3-1 3-1 3-1 3-1 |





For schematic diagram • Refer to page 4-17 for printed wiring board. 14 15 16 17 18 19 8 9 10 11 | 12 13 5 6 VC-208 BOARD(2/7) CAMERA PROCESSOR(CA BLOCK) NO MARK:REC/PB MODE R :REC MODE P :PB MODE -REF. NO. : 10000 SERIES-XX MARK: NO MOUNT RADO >> RADO RAD1 RAD2 >> RAD2 RAD3 >> RAD3 В RAD4 RAD4 ∑≫— R330 ≱ R329 RAD5 RAD5 ∑>-RAD6 S RAD6 RAD7 ∑> RAD9 RAD9 ∑≫-BAD0 ∑ BAD0 BAD1 ∑ BAD1 BAD2 SAD2

BAD3 SAD3 C305 0. 1u B BAD4 >>> BAD4
BAD5 >>> BAD5 1.3 AVSS
VAP_PITCH_A/D
1.3 VAP_YAM_A/D
R0. 5/P0. 2 HALL_A/D
0.2 ND_HALL_A/D
0.2 ND_HALL_A/D
0.2 ND_HALL_A/D
0.2 ND_HALL_A/D CORE_RST BAD6 S BAD6 STBY_UPRO BAD7 ∑ BAD7 VSS CE PIE B VAP_DD_ON R320 2200 C310 0. 1u BAD9 ∑ BAD9 C_RESET * GADO GADO SADO GAD1 SADO 1 TO(1/7) 1.8 75 VD

MCK 1.8 77 VD

RADS 0,93 RINS

RADS 0,80 RINS

RADS 18.1.2/PO 88 RINS

RADS 18.1.2/PO 88 RINS

RADS 18.2/PO 89 RINS

RADS 18.2/PO 99 BINS

BADS 0,99 BINS

BADS RI.1/PO 99 BINS

BADS RI.1/PO 99 BINS

BADS RI.1/PO 99 BINS

BADS RI.2/PO 99 BINS

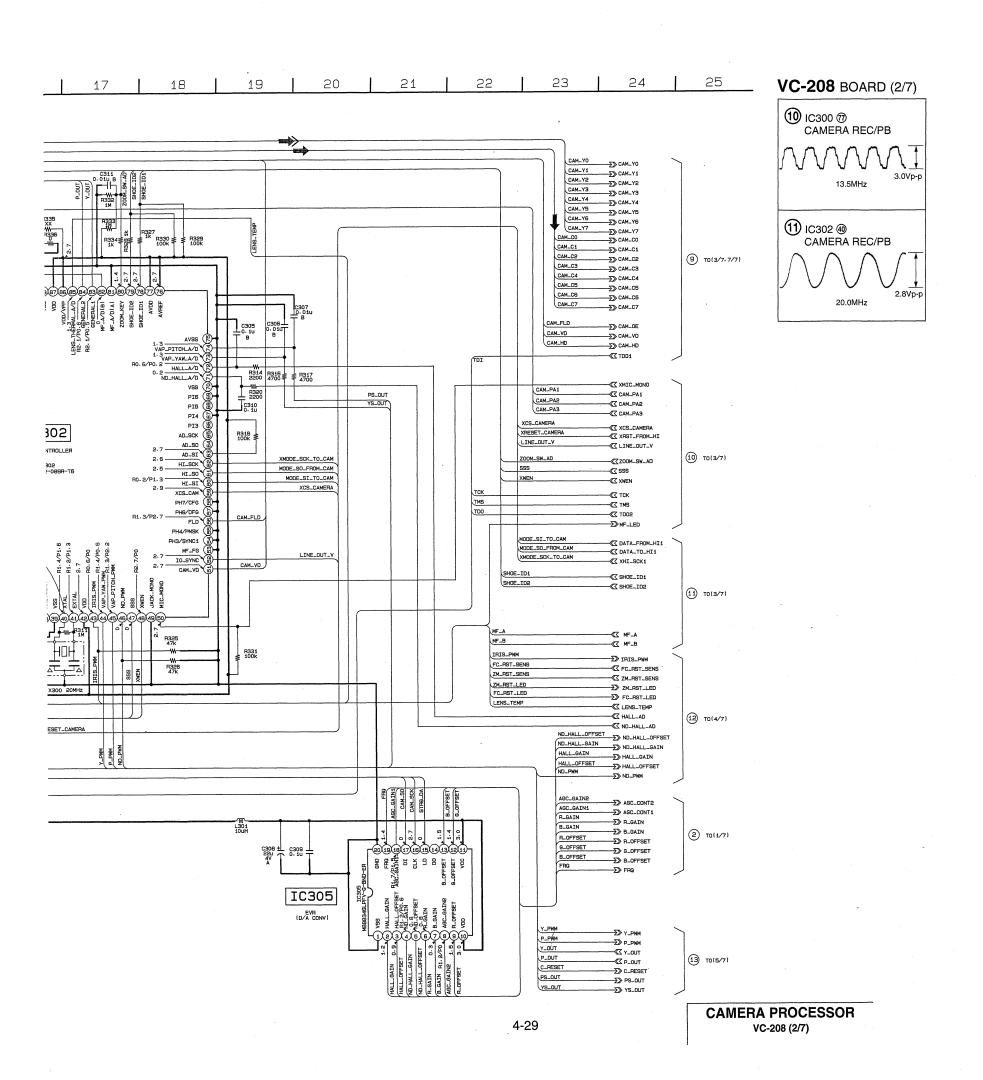
BADS RINS RINS

BADS RINS RINS RIN GAD2

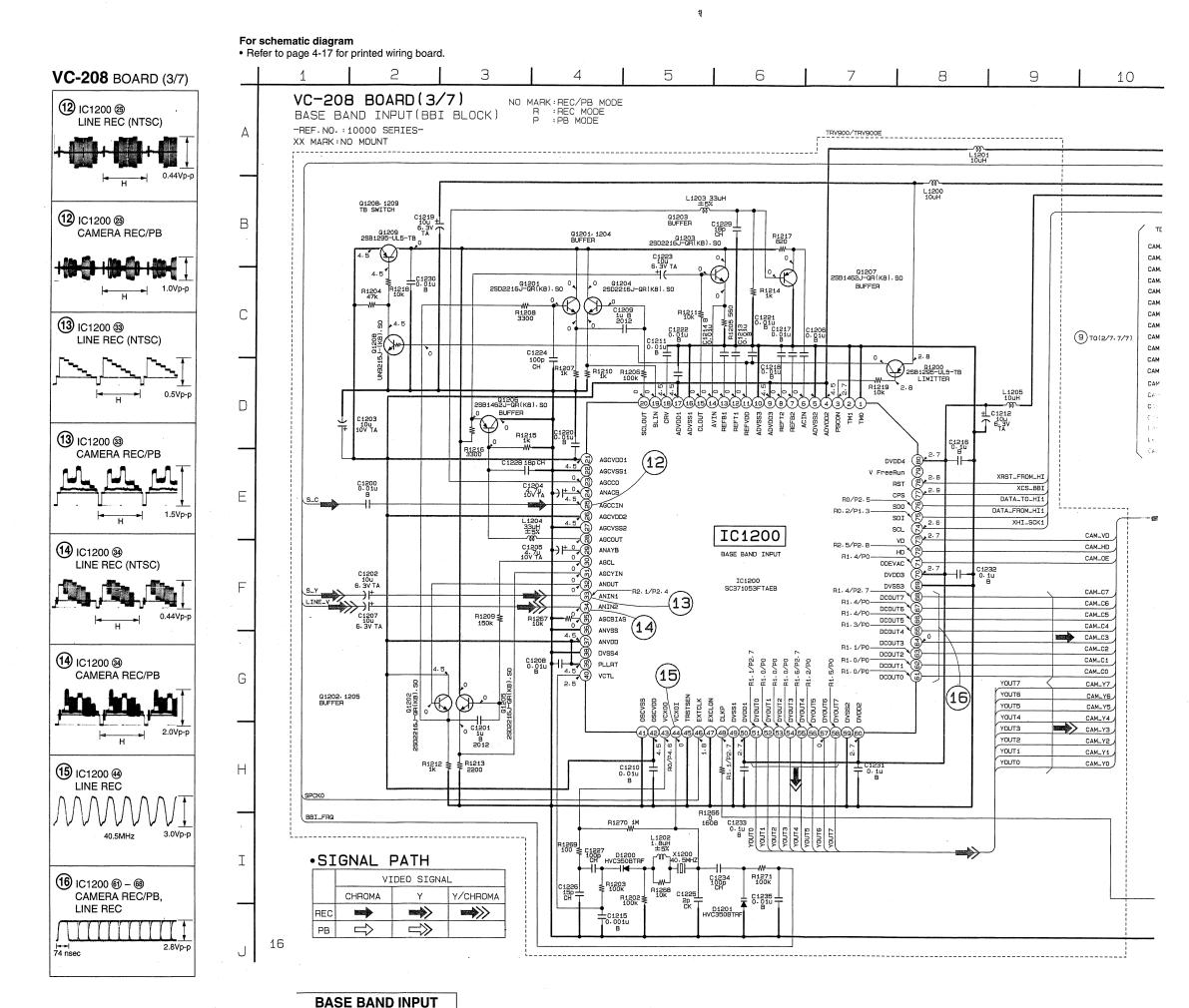
GAD2

GAD3

GAD4 різ (🖁 12. 5/P2. 7 VD (80) 2-7 HD (49) SND (47) 1. 8 BCK (47) 1. 8 BCK (47) 2-7 YOUT (45) YOUTH CAM_VD CAM_HD 3/P2 3/P2 3/P4 IC302 SOFT_V AD_SCK BAD_SD BAD_SD BAD_SD R318 ≱ GAD4 ∑ GAD4 GAD4 ∑ GAD5 GAD5 ∑ GAD5 R319 XX GAD6 ∑> GAD6 2.5 HI_SCK ZM_RST_LED FC_RST_LED GAD7 ∑ GAD7 R0/P0.2 Q301 UN9211J-(KB).S0 GADB ∑ GADB R0.2/P1.3 ---R1. 2/P0 YOUT6 44 CAM_Y6 HI_SI & R1. 2/P0 YOUTS (4)
R1. 8/P2. 7 YOUTS (4)
R1. 1/P0 YOUT3 (4)
R1. 1/P0 YOUT2 (4)
R1. 0/P0 YOUT3 (3)
R1. 0/P2. 7 YOUT0 (3) CAM_Y5 GAD9 SAD9 ② ZOOM_RST_ZONE_SENSER
— ② ZOOM_RST_EDGE_SENSER
— ② FOCUS_RST_SENSER PH7/CF6 (B)
PH6/DF8 (b)
FL0 (B)
PH3/SYNC1 (B)
PH3/SYNC1 (B)
2.7 IO_SYNC (B)
2.7 CAM_VD (B) CAM_Y4 PH7/CFG Q301 LED DRIVE SPCK0 ∑≫ FC_RST_SENS IC300 CAM_Y2 XND_ON_SW MF_B 2.7 CLPOB CLPOB «~ CAMERA Y/C SEPARATOR CAM_YO XV1 XV1 ∑> 9007 (38)
91. 3/P0. 7 (77)
91. 3/P0 (77)
91. ES PE1 PE3 XSG1 TG_VD XSG1 53-CAM_C7 TC300 TG_VD >> CAM_C6 CAM_VD TG_HD VGAT CXD3116AR-T6 TG_HD ∑≫-VGAT ∑> CAM_C4 PBLK IC301 R301 47k PBLK ∑> CAM_C3 CAM_C2 CAM_SCK CAM_SCK CAM_C1 CAM_C0 CAM_SO CAM_SO CZ-CS_CAM CS_CAM (VDD 28-CORE_RST R325 47k CORE_RST << R304 100k AD_STBY R331 100k AD_STBY AD_STBY @Z-0. 1u TG_WEN VAP_DD_ON 6 TO(5/7) < VAP_DD_ON < ← C300 0. 1u C302 0. 1u HO. 4/PO. H1. 4/PO. H1. 1/PO. H1. 1/PO. H1. 2/PO. H1. 2/PO. H1. 3/PO. IRIS_COM < IRIS_COM ENO ENO XRESET_CAMERA L300 EN1 (9AD9 (9AD6 (9AD6 (9AD6 (9AD3 (9AD3 (9AD1 (9AD1 DIR_OA 7 TO(4/7) DIR_OA << DIR_OB DIR_1A DIR_1A &7 A TE ST OF DIR_1B (T DIR_1B FB301 0uH HS601 $\overset{\text{\tiny 4)}}{\text{\tiny 5/7.6/7)}} \overset{\text{\tiny 10(1/7.4/7.}}{\text{\tiny 5/7.6/7)}} <$ CAM_3. 1V 2 B T0(3/7) ·SIGNAL PATH VIDEO SIGNAL CHROMA Υ Y/CHROMA REC ******* PB 16



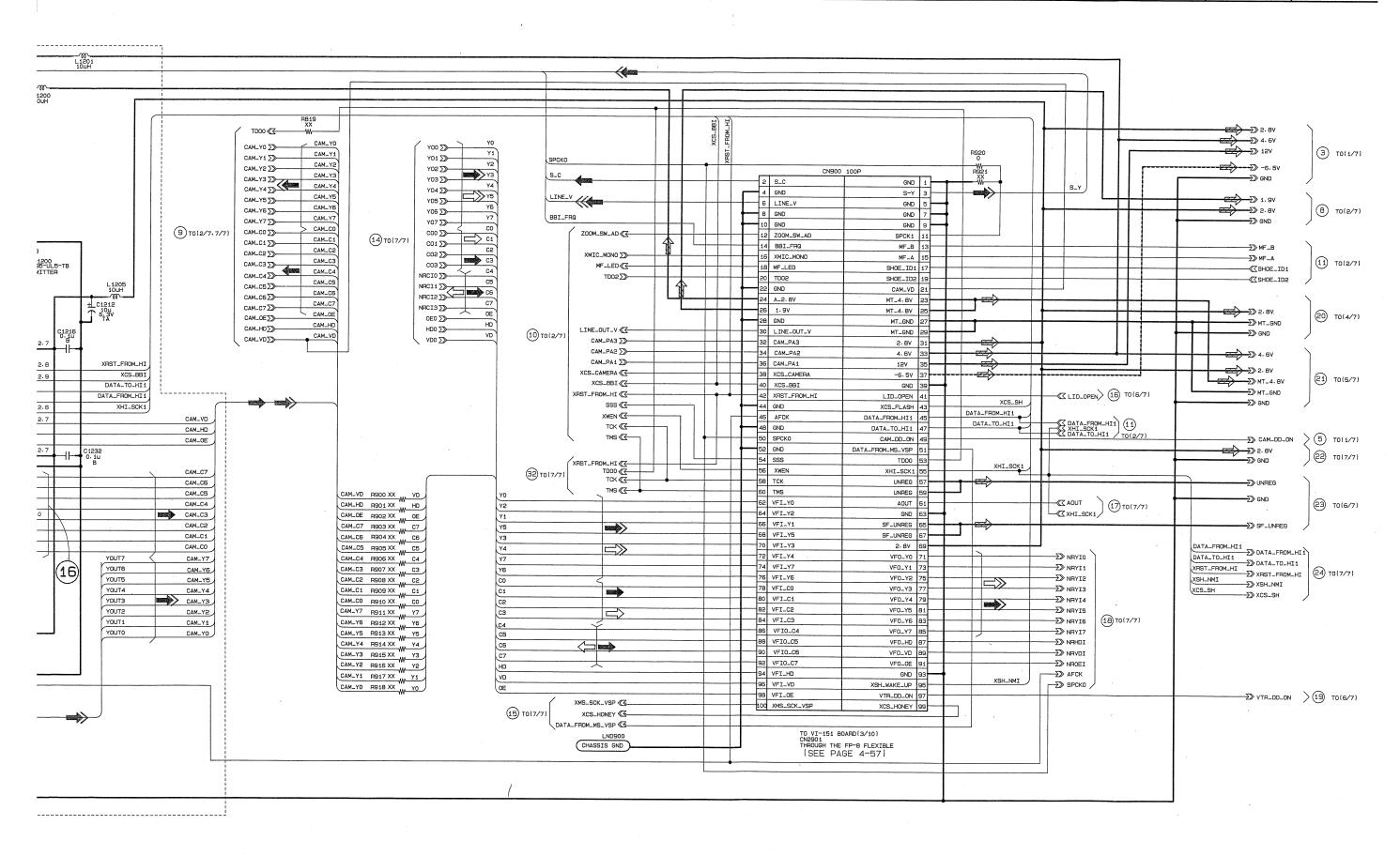
DSR-PD100/PD100P



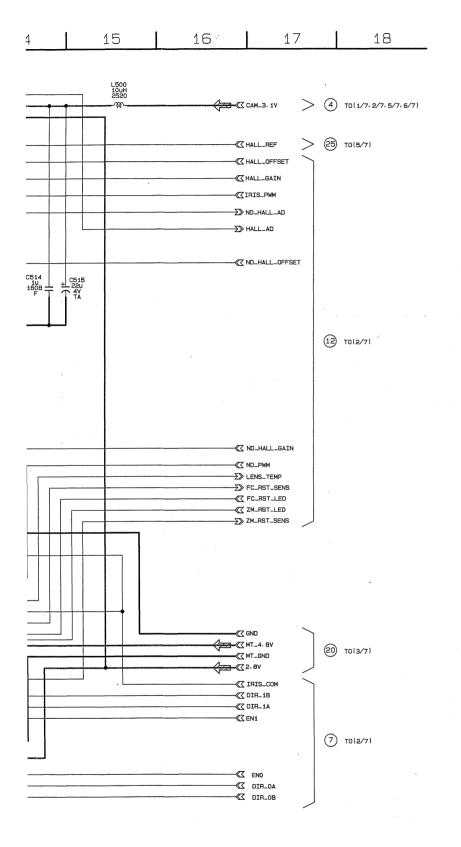
VC-208 (3/7)

4-32

9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23



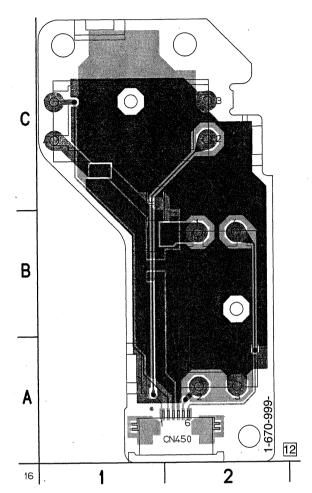
For schematic diagram • Refer to page 4-17 for printed wiring board. 2 3 5 7 8 9 4 6 10 11 12 13 14 15 16 L500 10uH 2520 VC-208 BOARD(4/7) MOTOR DRIVE(LD BLOCK) **€** CAM_3. -REF.NO.:10000 SERIES-XX MARK: NO MOUNT R512 R513 2200 15k C507 0.22u 2012 B B H510 470k R510 470k R517 1k -≪Z HALL_ NO MARK:REC/PB MODE R :REC MODE P :PB MODE -≪Z HALL_(-≪Z HALL_(В C506 W R516 C510 0.001u → HALL_. D500 MA2S111-(KB).SQ OUT2 IN2-IN2-VCC IN1+ IN1-MD_HAI C523 2200p | R535 | C526 2200p | A70k | C526 0.001u Q501 AMP IC501 HALL/IRIS DRIVER OUT3
IN3+
IN3+
GND
IN4+
IN4OUT4 D501 MA2S111-(KB) SO OUT2 IN2-IN2+ VCC IN1+ IN1-Q501 2SD2216J-QR(K8).SO 8 9 10 11 12 13 14 0.5/P0 N 8 7 7 7 7 R0/P2-E Q502 2SD2216J-QR(KB).SO IC502 Q503 AMP D HALL/IRIS DRIVER C500 0.01u B R502 0 2012 1/10w R509 220k 0.1 ₹ R518 ₹ R520 十^{C533} MD.HA CN500 26P #2530 ¥ #2530 ¥ #1531 ¥ #1531 BIAS+ 26 R523 0 2012 1/10W --≪Z ND..PW HALL† 2 -∑ LENS_ C521 R528 0-1u R528 BIAS-→ FC_RS HALL- 2 -≪∑ FC_AS R514 22k R519 22k DRIVE- 22 R538 330 --≪Z ZM_RS DRIVE+ ND_BIAS+ C528 2200p B R534 0.470 0.014 22k -2012 0.014 ND_HALL+ ND_BIAS-ND_HALL-ND_DRIVE- 16 LENS BLOCK ND_DRIVE+ 15 R539 22k TEMP_OUT ZM_RST_SENS 12 Q500 2SB1462J-QR(KB).SO G ZM_SENS_VCC 1 -≪7 GND **€** MT_4. FC_RST_SENS 1 FC_SENS_VCC 9 R501 4700 --≪₹ MT_GN FC_A FC_A 2. BV FC_A 8 FC_A FC_B Q505 2SB1462J-QR(KB).S0 -≪ IRIS_ FC_B -≪ DIR_1 IC500 C508 14 FC_B 5 ZM_B R500 ≱ R503 68k ≱ 68k -≪ DIR_1 ZM_B 4 -≪Z EN1 Н ZM_B 3 ZM_A L501 10uH 2520 ZM_A 2 ZM_A 1 Q500,505 ZM/FC VCC SWITCHING R545 4700 C518 FB501 OuH * LENS BLOCK is replaced as a block-so that these SCHEMATIC DIAGRAM and PRINTED WIRING BOARD are omitted. -≪Z ENO -≪I DIR--≪I DIR-C502 0. g1u C517 33u 6-3V TA B FC_B 16



SE-75 (YAW/PITCH SENSOR) PRINTED WIRING BOARD

— Ref. No. SE-75 Board; 10,000 Series —

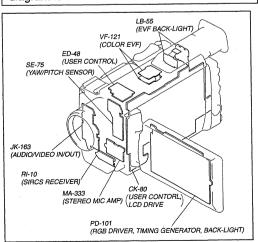
SE-75 BOARD (SIDE A)



For printed wiring boards

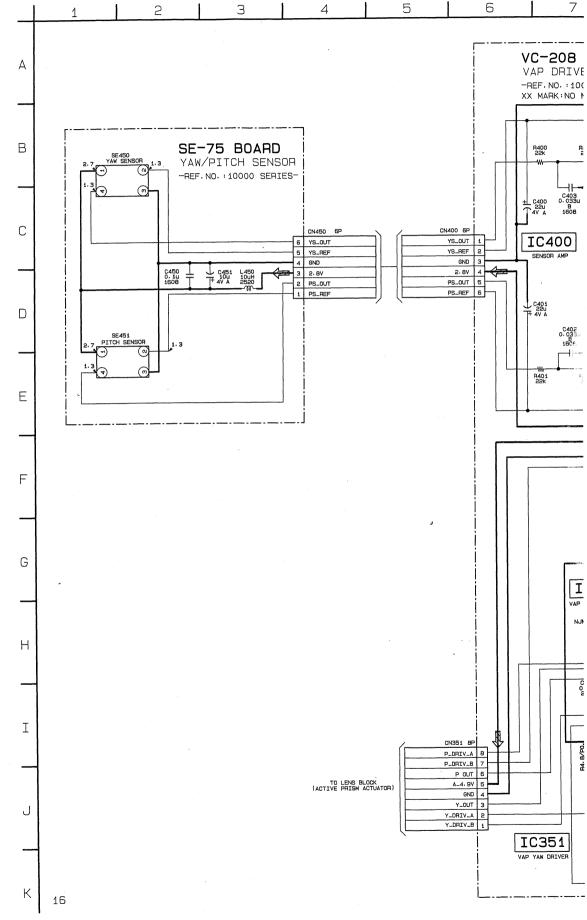
 This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.

There are few cases that the part printed on this diagram isn't mounted in this model.



SE-75 BOARD

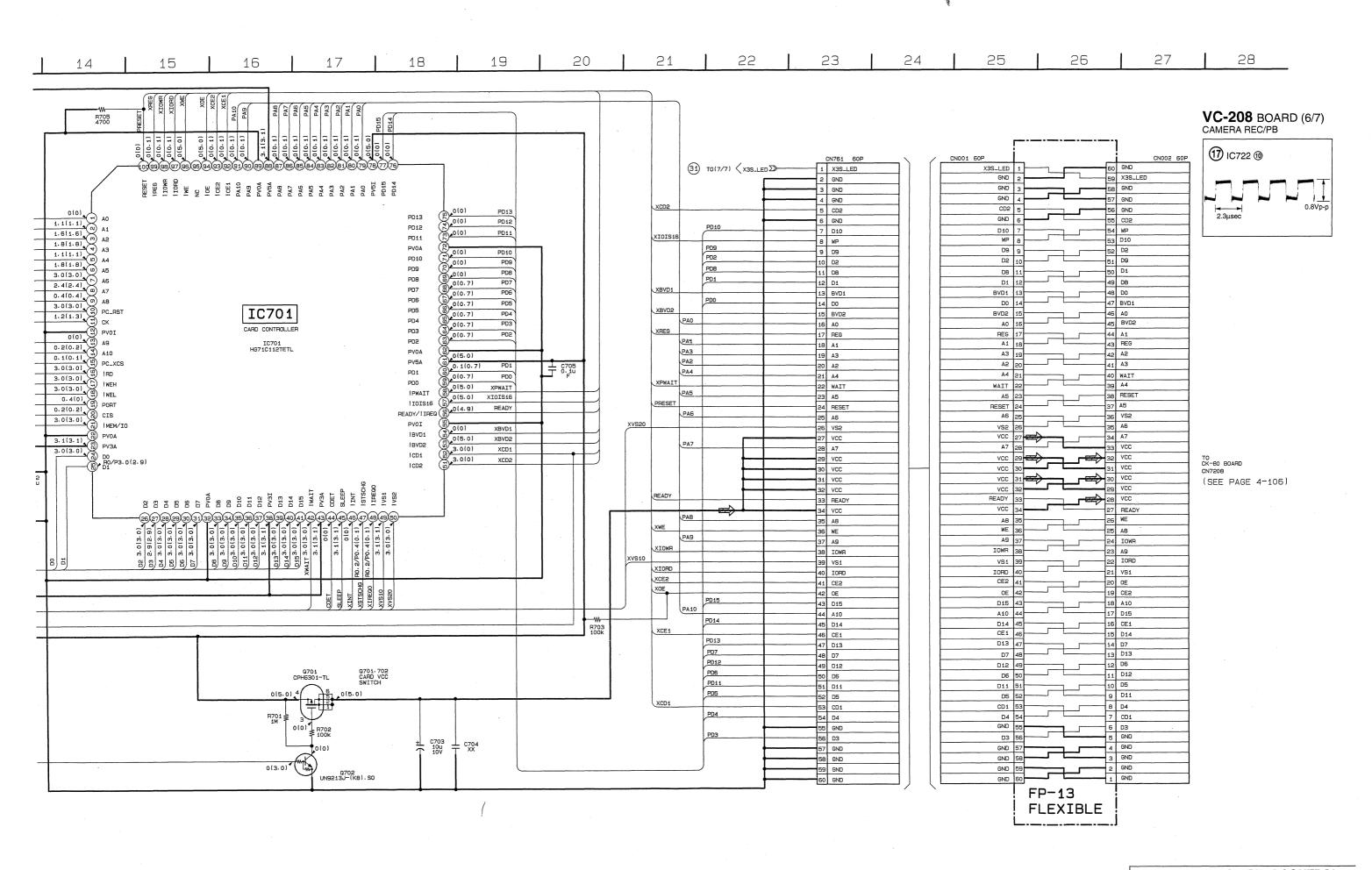
C450 B-2 C451 A-2 CN450 A-2 L450 B-1 SE450 B-2 SE451 C-1

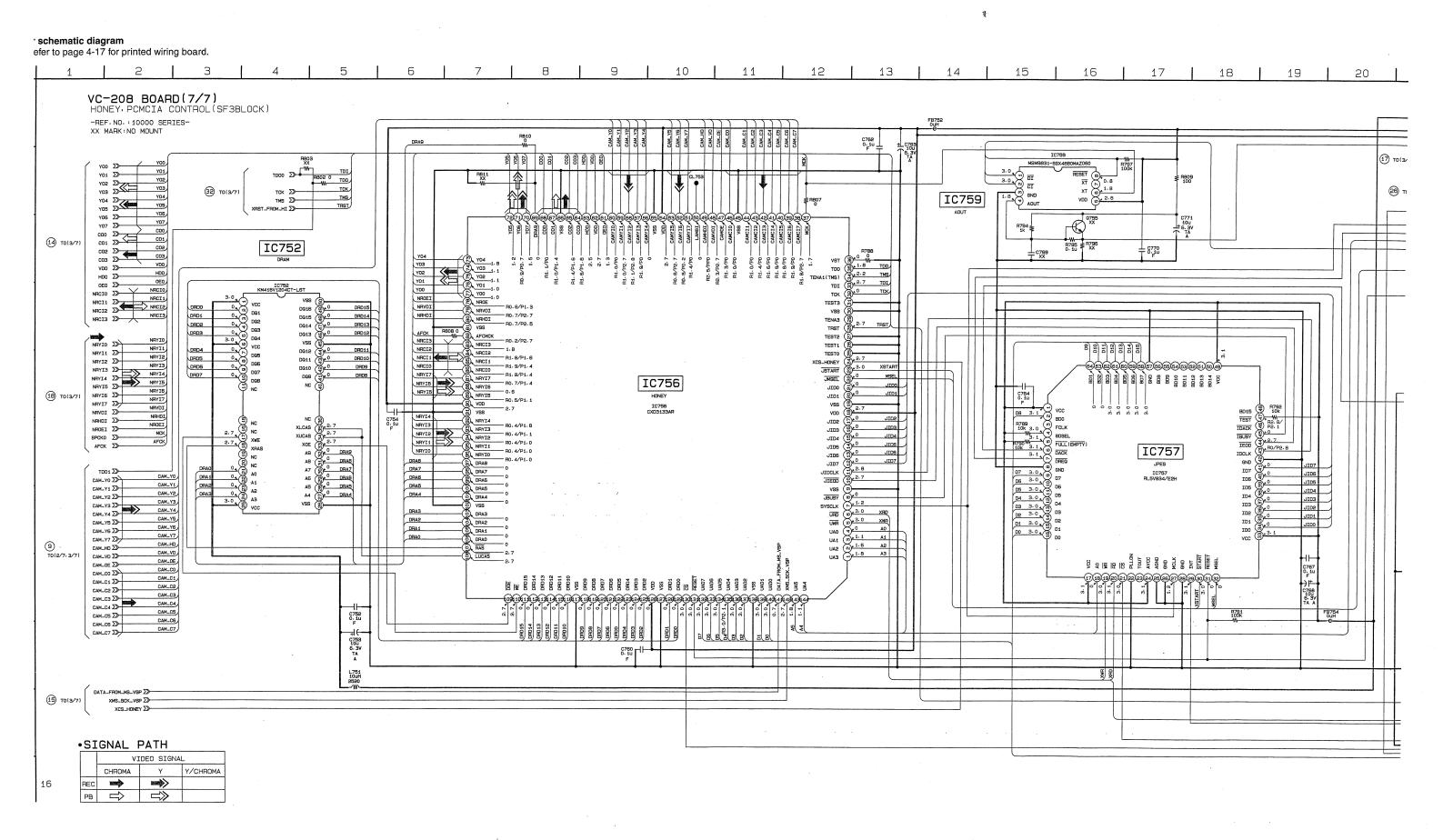


For schematic diagram
• Refer to page 4-17 for printed wiring board of VC-208.

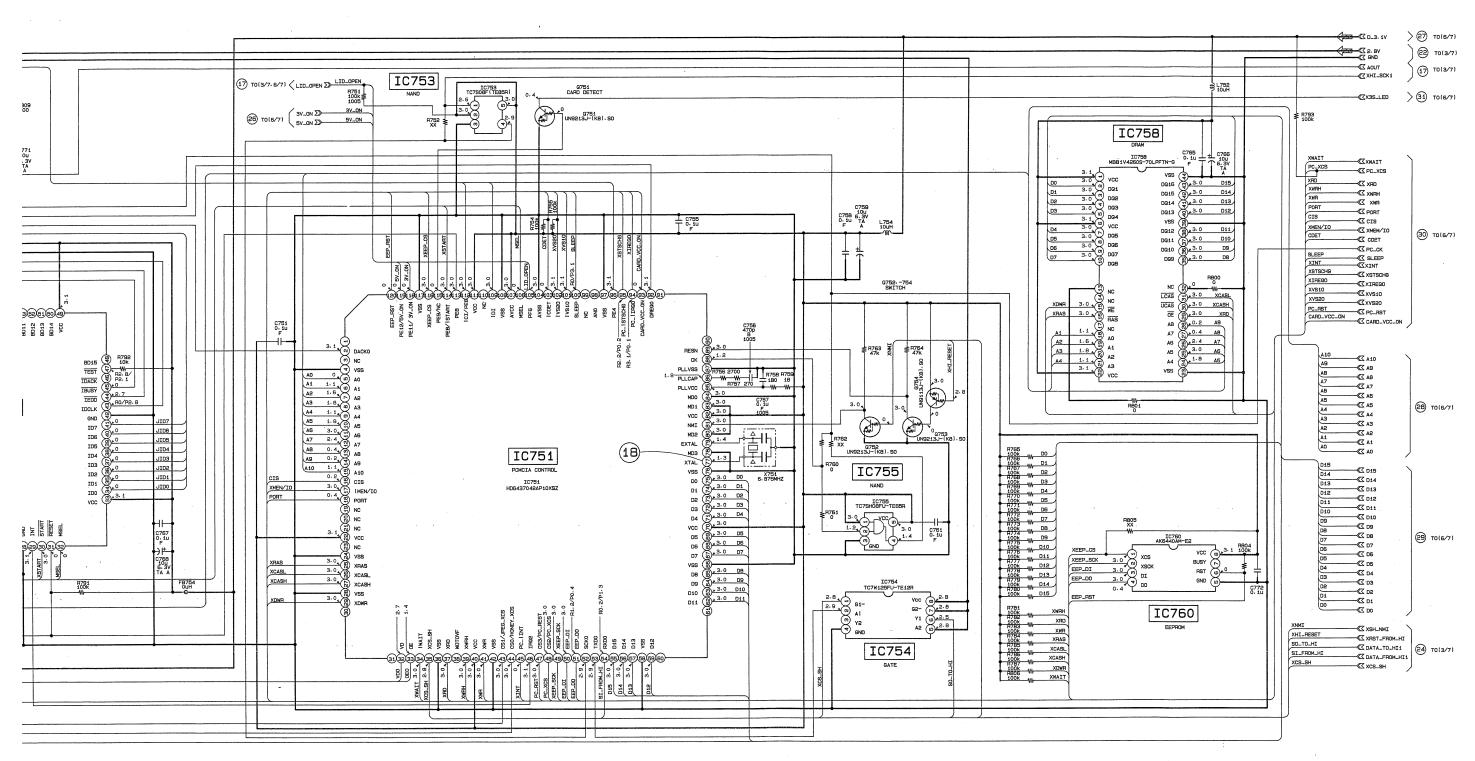
5 6 8 9 10 11 12 13 14 15 16 17 18 19 20 VC-208 BOARD(5/7) NO MARK: REC/PB MODE R : REC MODE P : PB MODE VAP DRIVER(VP BLOCK) -REF.NO.:10000 SERIES-XX MARK: NO MOUNT IC355 SN74HCT04APW-E20 R400 22k R403 22k -≪Z Y_PWM C403 0.033u B 1608 P_PWMI - R1. 4/P2.2 ± C400 22u 4V A P_OUT (13) TO(2/7) --->>> Y_0UT ---CZ C_RESET IC355 YS YS_OUT IC400 YS_OUT 1 100uH 2520 Q351 2SB1462J-QR(KB).SO PS → ∑ PS_OUT YS_REF 2 YAW/PITCH PWM DRIVE SENSOR AMP GND 3 2.8V 4 PS_OUT 5 PS_REF 6 R387 R0. 1/P4. 5 1k R2. 7/P0 C401 F 4V A Q352 UN9213J-(KB).SO C408 C410 47u 47u 4V B 4V B R401 22k R402 22k ¥ R407 21) TO(3/7) ₹ R381 58k o. 0274 o. 0222u R382 66k C373 0.047u 1608 C355 R366 0.1u ±0.5% B2012 ±0.5% W-10.5% R363 R365 22k 47k 0.5% ±0.5% IC357 R383 68k R363 22k ±0.5% W R391 470k ±0.5% HALL DETECT MT_4. 8V C375 3300p B —≪∑ MT_GND CAM_3. 1V > (4) TO(1/7. 2/7. 4/7. 6/7) ₹ 8371 47k ±0.5% IC352
VAP PITCH DRIVER
IC352
NJM3414AV(TE2)
VAP QUAL TO THE TOTAL T r[®]----R355 18k ±0.5% IC356 0.B IC354 →>> HALL_REF > 25 TO (4/7) 0.8 H353 470 ±0.5% VAP Y/P DRIVE C379 1 0. 1u F R372 47k ±0.5% R362 R364 33k±0.5% 33k±0.5% → VAP_DD_ON > 6 TO(2/7) R392 22k ±0.5% C353 R361 0.1u 82012 ±0.5% C370 B300 B300 B384 B384 B384 B384 B385 B385 B385 B385 B385 B386 R368 150k R350 W 470k R360 47k ±0.5% ±0.5% R396 100k ±0.5% R2.7/P0 10k 1k 1k R0/P4. 8 R4. 1/ P4. 9 R376 100k R394 100k ≶ ±0.5% Q354 2SA1588-0Y-TE85L CN351 8P P_DRIV_A B P_DRIV_B 7 R4.8/P0.4 P OUT 6 Q353,354 /AP TB SWITCH R393 68k ±0.5% Q353 UN9215J-(KB). SO ENS BLOCK RISM ACTUATOR) A_4.9V GND . H395 68k ±0.5% ## H2.2/P0.5 ## H2 Y_OUT 3 Y_DRIV_A 2 C357 10u ± 6:3V TA A IC351

For schematic diagram • Refer to page 4-17 for printed wiring board. 2 3 5 7 8 6 9 10 11 12 13 14 15 NO MARK:REC/PB MODE R :REC MODE P :PB MODE ():PC CARD IN VC-208 BOARD(6/7) Д CARD CONTROL, PWM CONTROL R705 4700 (SF1/3,2/3BLOCK) -REF. NO. : 10000 SERIES-XX MARK: NO MOUNT Q721 Q721 5.0/3.3V REG CPH3106-PM-TL B.3) В SF_UNREG ∑ IC721 A0 Σ> 1.1(1.1) A0 1.5(1.5) M A1 1.8(1.8) M A2 R735 XX 3216 A1 ∑> 8.3(8.0) C733 4.7u B 3216 АЗ ∑> 1.1(1.1) A3 1.8(1.8) 44 2.0(3.0) 45 A4 ∑> 3.0(3.0) A6 2B) TO(7/7) A5 Σ≫-C R728 ≥ 22k ±0.5% 2.4(2.4) @ A7 A6 ∑≫-0.4(0.4) 0 A8 Δ7 Σ>>-AB ∑>>− 3.0(3.0) 1.2(1.3) CK PC_RST A9 ∑> A10 ∑> 0(0) PV0I 0.2(0.2) A9 0.1(0.1) A10 0.1(0.1) PC_XCS R741 E R730 47k ±0.5% H741 47k ±0.5% Q727 SWITCH D PC_XCS 23 TO(3/7) D1 ∑> 3.0(3.0) PC_XCS 3.0(3.0) PC_XCS 1 PD 1 PD 1 WEH D2 ____ XRD XWRH рз ∑≫-XWR D4 Σ>> 0.4(0) PORT PORT 0.2(0.2) 00 CIS 3.0(3.0) 0 IMEM D5 ∑≫− D723 1SS388(TPL3) CIS H740 0 D6 ∑> XMEM/IO L727 4. 7uH D7 Σ>> IMEM/IO 29 TO(7/7) D8 ∑≫— 3.1(3.1) PVOA Я743 1М ₹ H744 100k pe ∑≫— TO(1/7, 2/7, 4/7, 5/7) PV3A 3.0(3.0) D10 D10 ∑> D1 D0 P3.0(2.9) D11 D11 ∑> D12 GND ∑> D12 🎞 D13 D13 ∑>─ IC722 D14 ∑> 02 04 05 05 07 07 08 D15 ∑> Q722 CPH3106-PM-TL L725 4.7uH L721 10uH 3.1(3.1) 8.2(8.2) UNREG ∑> D_3. 1V > (27) TO(7/7) W R734 XX 3216 8.0(8.0) C736 4.7u B 3216 C734 4.7u B 3216 C740 ± 16 TO(3/7.7/7) < LID_OPEN ∑> 8731 \$ 3900 ±0.5% РС_СК ∑>-G XWAIT >>--PC_XCS PC_XCS ∑> XRD XRD ∑> XWRH , xwan ∑≫ R733 47k ±0.5% XWB. xwa ∑≫-PORT 2 PORT D CIS cis ∑> XMEM/IO ∑> XMEM/IO CDET CDET >>-30 TO(7/7) SLEEP SLEEP >>---(19) TO(3/7) < VTR_DD_ON >>> PC_RST ∑ PC_RST XINT XINT 🌫 XSTSCHG XSTSCHG ∑>---XIREQO XIREQO I XVS10 XVS10∑> xvs20 ∑ xvs20 CARD_VCC_ON∑> 16

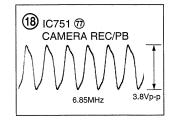




26 | 27 | 18 | 19 | 21 | 22 |



VC-208 BOARD (7/7)

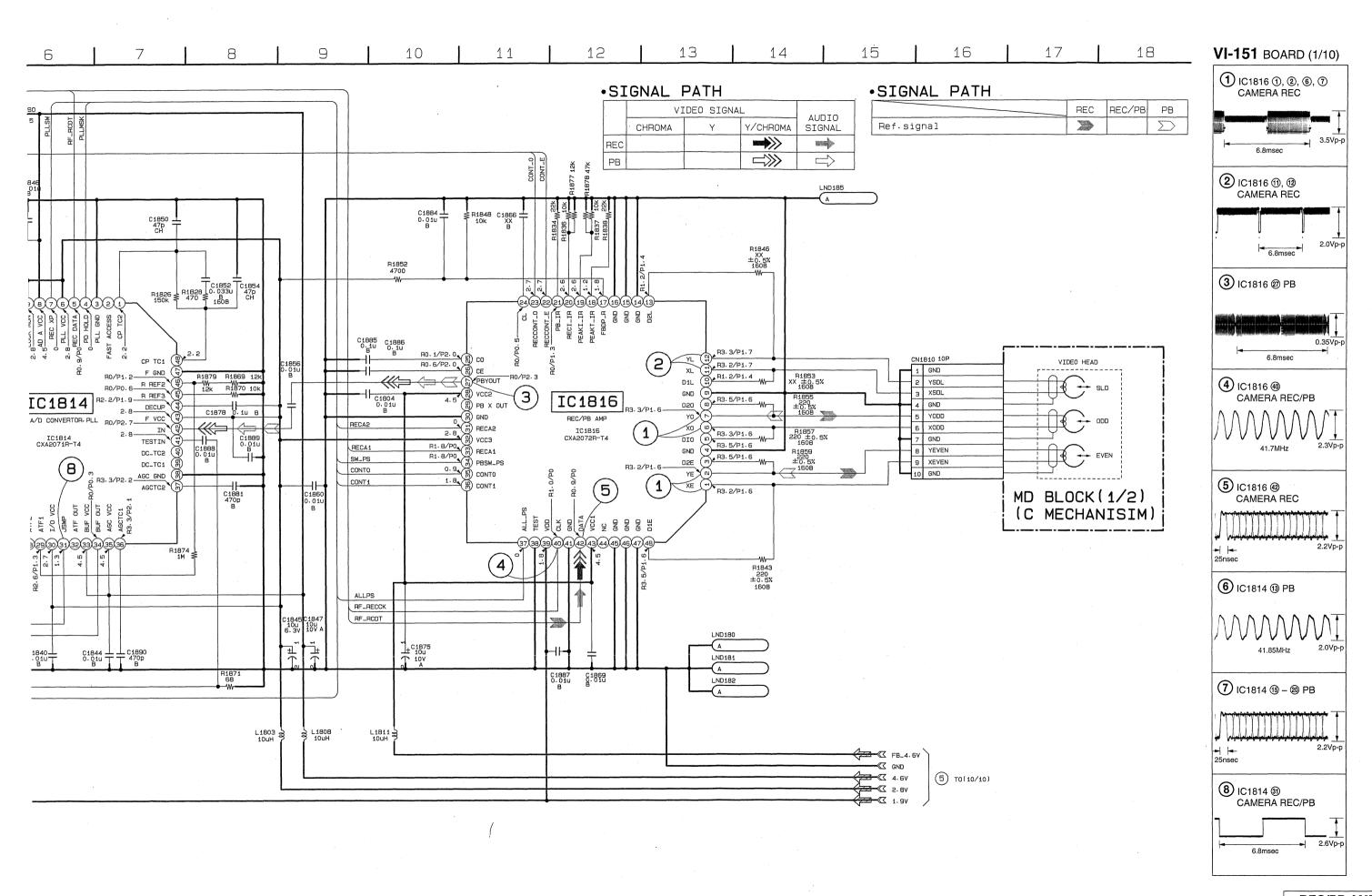


For schematic diagram • Refer to page 4-91 for printed wiring board. 2 3 5 4 6 8 9 10 1 1 12 13 14 •SIGNAL PATH VI-151 BOARD(1/10) VIDEO SIGNAL REC/PB AMP(RF1 BLOCK) AUDIO -REF.NO.:10000 SERIES-CHROMA Y/CHROMA SIGNAL XX MARK: NO MOUNT REC DOT \Rightarrow \Rightarrow PΒ 1 TO(9/10) CAP_EVR >> 1877 12k .878 47k R1876 ₹ REEL_EVA REEL_EVR S LND185 В DATA_FROM_MS_DRP ∑> XCS_TRF ∑> C1837 0.01u XSCK 2 TO(B/10) XMS_SCK_DAP ∑> REC_CRRTO ∑ CONT_E REC_CRRT1 ∑> CONT_0 XX ±0.5% 1608 \mathbb{C} 24\23\22\21\20\19\18\17\16\15\14\1 RF_RECCK **(6)** É RECCK ∑> 7 RECDT DESCRIPTION OF THE PROPERTY OF THE PROPE 1886 0.14 10.172.0 8 CO 10.672.0 8 CE PBYOUT 21904 4.5 8 VCC2 PB X C RECA1 ∑> R1872 | R0/P1.1 | G | CLK (PB_41.85MHz) | G | CLK (PB_ P3. 3/P1. 7 YL P3. 2/P1. 7 XL P1. 2/P1. 4 рвскз ∑≫ // DATA5 ADDT5 ∑> F GND (4) R1879 R1869 12k DATA4 DATA1 RO/P1.1 DATAO RO/PO. 6 R REF2 4 R1853 XX ±0.5% 1608 ADDT4 DATA4
ADDT3 DATA3 D DATA1 C1804 0.01u B R2.2/P1.9 R REF3 3 GND H3.5/P1.6 DATA2 DATA2 RO/P1.1 IC1814 DATA2 IC1816 2.8 DECUP ADDTS ∑≫ D20 3 TO(2/10) DATA3 RO/P1.2 DATA1 DATA0 DATA1 DATAS C1878 R0/P2.7 F VCC O GND

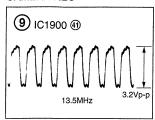
2. B RECA2

2. B VCC3 ADDT1 D EQ. A/D CONVERTOR, PLL Yo X REC/PB AMP RECA2 DATA4 DATA4 R0/P1.1 X0 B3.3/P1.6 ADDTO \$\sum_ R1857 220 ±0.5% 1608 IC1816 DATA5 (R) DATA5 TESTIN 4 DIO (1) R3.3/P1.6 GND (4) R3.5/P1.6 CXA2072R-T4 SW_PS SW_PS >> H1. 8/PO HECA1

H1. 8/PO PBSW_PS AD D GND 2.7 RECA1 CONTO R1859 220 ±0.5% 1608 R3.5/P1.6 CTRLO ∑≫ XSCK 1.8 DC_TC1 (R) SW_PS CONT1 D2E CTRL1 D 0. 9 (б) соито R3.2/P1.6 ., R3. 3/P2. 2 AGC GND CONTO ALLPS ALL_PS >> 1. B CONT1 CONT1 AGCTC2 (m) PLLMSK C1833 0.01u B (1) (5) XE 📆 PLLMSK ∑> R3, 2/P1, 6 RECA2 RECA2 ∑> PLLSW PLLSW ∑> H1843 220 ±0.5% 1608 XCS REEL_EV ALLPS RF_RECCK RF_RCDT C1845 10u 6.3V SWP >>> (4) TO(7/10) FF_MON ∑> LND180 RF-IN/LANCJKIN ∑> G LND181 R1871 68 C1869 2.01u LND182 3 L1808 16



VI-151 BOARD (2/10) CAMERA REC

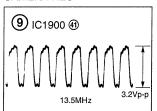


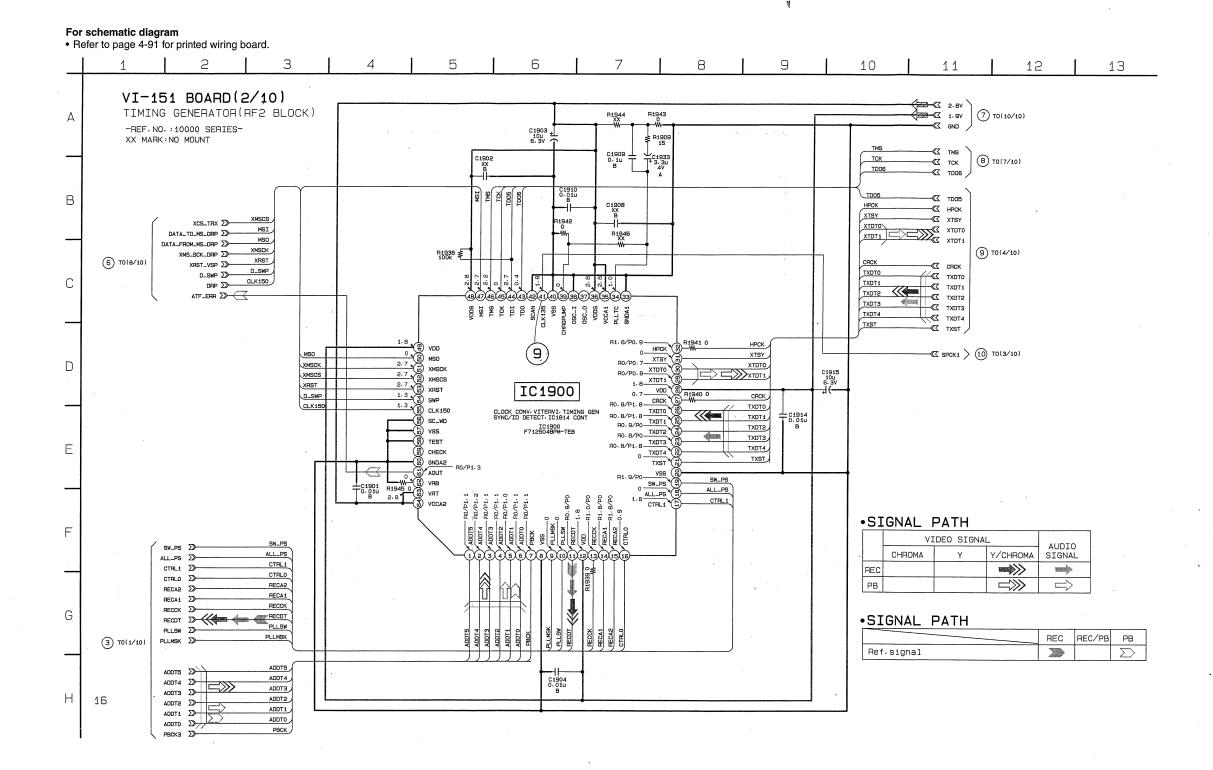
For schematic diagram

• Refer to page 4-91 for printed wiring board. 5 6 VI-151 BOARD(2/10) TIMING GENERATOR(RF2 BLOCK) Α -REF.NO.:10000 SERIES-XX MARK:NO MOUNT В XMSCS MSI DATA_TO_MS_DRP >>---R1946 XX MSO DATA_FROM_MS_DRP >>-XMSCK XMS_SCK_DRP ∑>-R1938 ₹ 6 TO(8/10) XRST XRST_VSP ∑> D_SWP D_SWP

DRP CLK150 С ATF_ERR ∑ R1.8/P0.9— 0— R0/P0.7— R0/P0.8—X 1.8—X 0 (P) VDU
0 (A) MS0
2.7 (F) XMSCK
2.7 (F) XMSCS
2.7 (F) XMSCS
3.3 (F) SWP 9 XMSCK XMSCS D XRST IC1900 D_SWP CLK150 0.7---0.7— R0.8/P1.8—T; R0.8/P0.8—T; R0.9/P0—T; R0.8/P0—T; R0.8/P0—T; 1.3 LD CLK150 CLOCK CONV. VITERVI. TIMING GET SYNC/ID DETECT. IC1814 CONT ® sc_wo IC1900 F712504BPM-TEB E TEST (B) CHECK (B) GNDA2 H0/P1.3 0 GNDA2 0 GNDA2 0 GN AOUT 0 VRB 0 VRB 0 VRT 0 VCCA2 0 - Si 0 - ALL 1 . 8 - C sw_ps ∑> ALL_PS 🎞 CTRL1 CTRL1 D CTRLO ∑≫ RECA2 RECA2 ∑> RECA1 RECA1 ∑> RECCK RECCK ∑≫-G RECOT > RECOT PLLSW PLLSW 🌫 3 TO(1/10) PLLMSK ∑≫ ADDT5 ADDT5 C1904 0.01u B ADDT4 ADDT4 D ADDT3 Н 16 ADDT2 ADDT2 DADDT1 DADDT0 DADDT0 ADDT1 ADDTO

VI-151 BOARD (2/10) CAMERA REC





• Refer to page 4-91 for printed wiring board. 3 8 9 10 1 1 12 13 14 15 16 17 18 VIDEO INTERFACE(VFD BLOCK)

REF. No. 14000 255555 VI-151 BOARD(3/10) -REF.NO.:10000 SERIES-Q1500 B BUFFER Q1501 R BUFFER XX MARK: NO MOUNT Q1500 2SD2216J-QR(KB).SO Q1501 2SD2216J-QR(K8). VFD_2. 8V ∑ 1.9V >>> A_2. BV 2 R1516 R1521 ★ 680 ₹ 330 R1514 470 C1512 + C1503 + C1503 TA MT_GND ∑> ≪S_YIN ≪S_CIN (15) TO(5/10) GND 🌫 Crive-Ain / MT_4. 8V ∑> (SEE PAGE 4-34) 2. 8V >>> 4. 6V >>> 2. BV 🏂 TO VC-208 BOARD(3/7)
(THROUGH THE FP-8 FLEXIBLE) (4B) TO(10/10) CN2901 100P —≪BBI_FAQ > (16) TO(5/10) Q1502 2SD2216J-QR(KB 1 6ND
1 6ND
3 S-Y
5 6ND
7 6ND
9 6ND
11 SPCK1 11 S_C 2
GND 4
LINE_V 6 (10) Q1502 Y BUFFER (18) TO(4/10) (L1.9V ∑>-L2.8V ∑>-SF_UNREG >> GND B GND R1512 4700 CL2901 SPCK1 ((R1509 4700 ≸ 10 TO(2/10) < ZOOM_SW_AD ZOOM_SW_AD 12 MF_B MF_A BBI_FRQ 14 XMIC_MONO 15 MF_A 17 SHOE_ID1 XMIC_MOND 16 11) TO(4/10) SHOE_ID1 (MF_LED R1518 XX MF_LED 1 SHOE_ID2 << TD02 TD02 20 19 SHOE_ID2 GND 22 23 MT_4.8V 25 MT_4.8V A_2.8V 24 1.9V 26 VBUSG
VBUSG R1515 4700 D 27 MT_GND 29 MT_GND 31 2.8V 33 4.6V GND 28 LINE_OUT_V 30 CAM_PA3 CAM_PA3 LVDD3 33 4. 35 12V 37 -6.5V CAM_PA2 VSS5 CAM_PA2 PVSS CAM_PA1 HVDD3 CAM_PA1 36 PVDD XCS_CAMERA PLLTES XCS_CAMERA HVDD2 XCS_BBI 39 GND 41 LID_OPEN XCS_BBI TEST VSS3 LID_OPEN TRCKI XRST_FROM_HI 42 TSCKO XCS_FLASH
DATA_FROM_HI1 TRCKO GND 44 AFCK 46 43 XCS_FLASH F358 AFCK 45 DATA_FROM_HI1 VSS6 DATA_TO_HI1 DPVD 47 DATA_TO_HI1 GND 48 VREF DPHD CAM_FLD CAM_DO_ON 49 CAM_DD_ON
51 DATA_FROM_MS_VSP OEI SPCKO 50 IC1501 AFCK GND 52 SPCK 12 TO(7/10) < TD00 ∑> 53 TOO0
55 XHI_SCK1
57 UNREG
59 UNREG SSS VBUS0 SSS 54 LVDD4 LVDD1 VIDEO INTERFACE XHI_SCK1 XWEN XWEN 5 VSS7 VSS2 VBUS1 TCK ! CAM_HD VI IC1501 VBUS2 TMS , M65511WG-600D TMS CAM_C7 61 AOUT 63 GND 65 SF_UNREG 67 SF_UNREG 69 2.8V 71 VFO_VO 75 VFO_Y1 (13) TO(6/10) < AOUT ∑> CAM_YO VFI_Y0 E CIOB3 VBUS3 CAM_C6 CAM_Y2 VFI_Y2 6 CAM_C5 CIOBS VBUS4 ⋘≔ CAM_Y1 Y05 (P) Y04 (P) Y03 (P) CIOB1 VFI_Y1 CAM_C4 CAM_Y5 СІОВО VBUS5 VFI_Y5 CAM_Y3 SCAN VFI_Y3 CAM_Y4 VBUS6 VFI_Y4 TDO F_Y1 F_Y0 LINE_OUT_V TDI F_Y1 CAM_Y7 TDI VBUS7 VFI_Y7 G TCK F_Y2 CAM_Y6 75 VF0_Y2 77 VF0_Y3 VFI_Y6 Y00 F_Y3 TUVS CAM...CO VFI_CO 7 DATA_TO_MS_VSP OSDVD CAM_C1 CAM_C2 CAM_C3 F_Y4 79 VF0_Y4 \Rightarrow VFI_C1 8 DATA_FROM_MS_VSP XVEN OSDHD F_Y5 81 VF0_Y5 83 VF0_Y6 85 VF0_Y7 87 VF0_HD VFI_C2 8 OSDL XMS_SCK_VSP F_Y6 VFI_C3 8 XCS_VFD OSDP F_Y7 CAM_C4 XMCS VFIO_C4 E CAM_C5
CAM_C6 COL3 F_HD VFIO_C5 E VSSB HVDD1 F_VD 89 VF0_VD 91 VF0_0E HVDD4 VFI0_C6 9 F_0E0 CAM_C7 VFI0_C7 92 VFI_HD 94 CL2903 CAM_VD 93 GND XSH_WAKE_UP 95 XSH_WAKE_UP VFI_VD 96 VTR_DO_ON 2904 CAM_FLD 97 VTR_DD_ON 99 XCS_HONEY VFI_OE 98 XMS_SCK_VSP 100 0 (2) BLKC GND (3) NC TEST (6) (2) BLKB OSC (8) 1.8

0 (7) VC3 OSC (7) 1.8

0 (8) VBLA CMDCT (8) 3.0

0 (9) VC2 VDD (7) 2.8

0 (9) VC0 DATA (7) 0.1

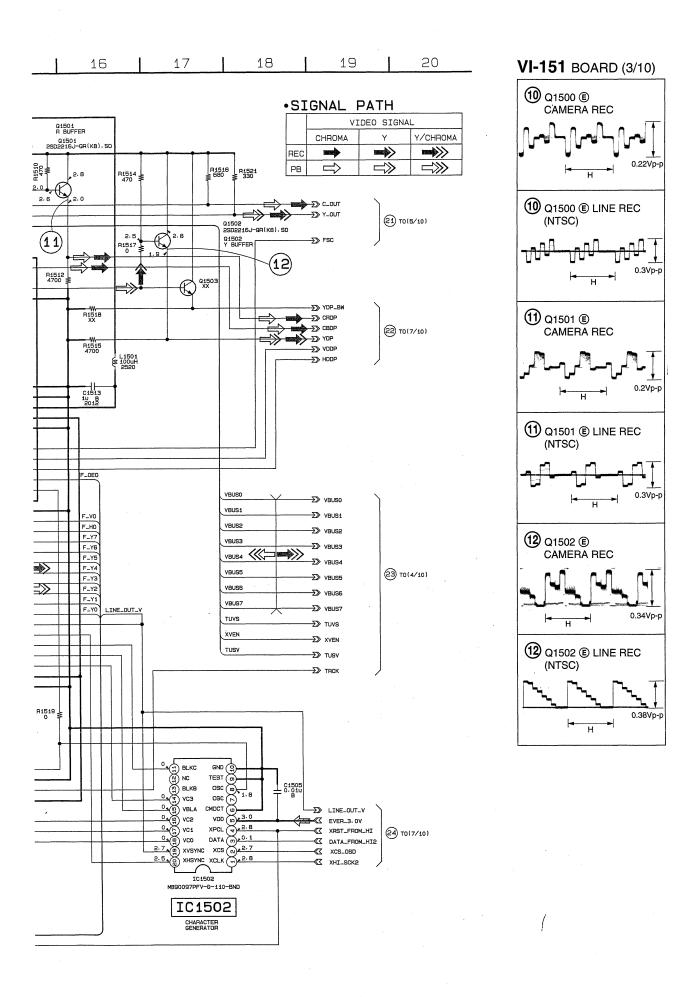
2.7 (9) XVSYNC XCS (8) 2.7

2.5 (8) XHSYNC XCS (8) 2.7 XRST_VSP CAM VD & LID_OPEN MF_A ∑>-LID_OPEN 🌫 MF_B S MF_B

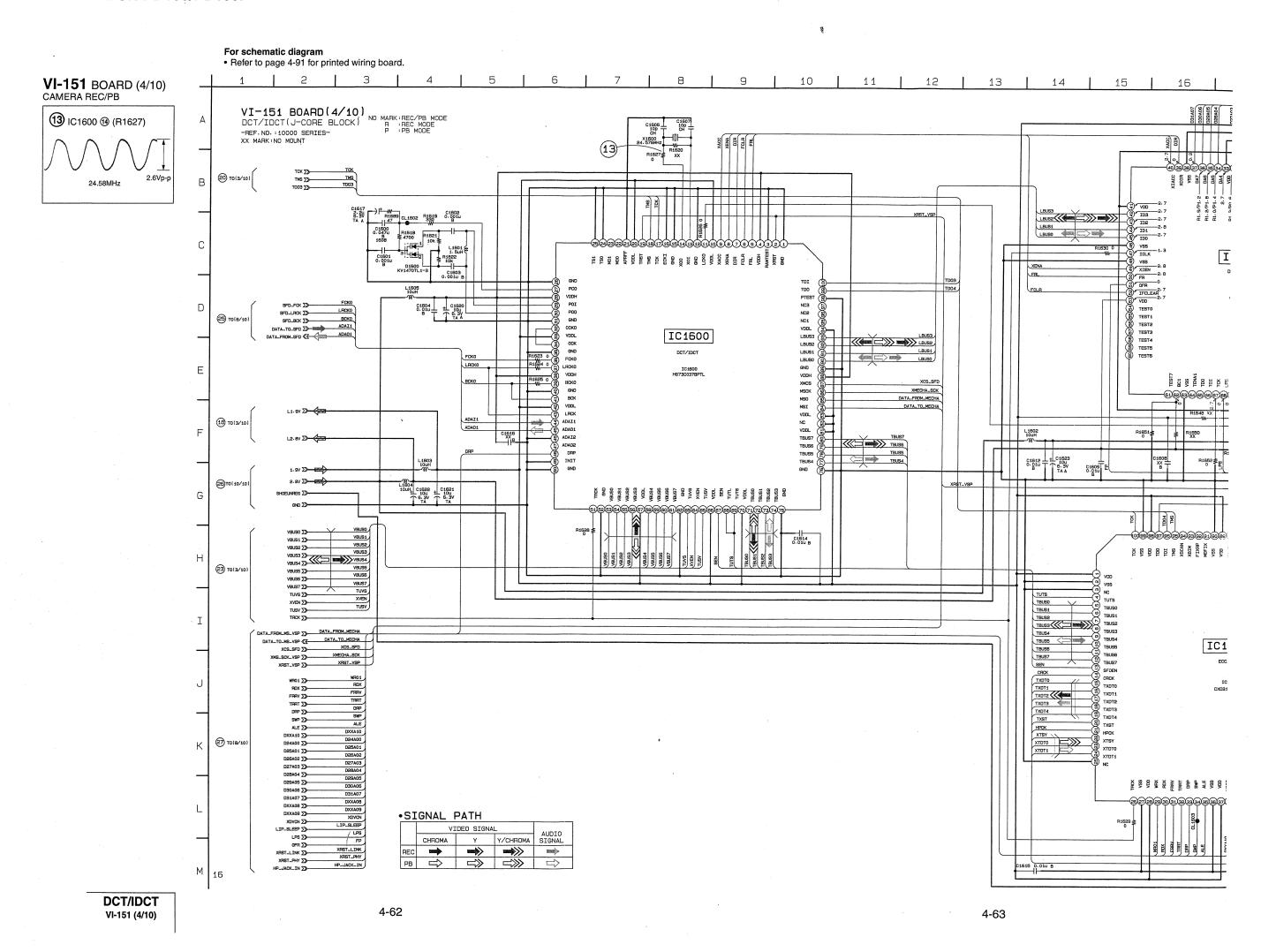
XMIC_MONO XMIC_MONO XCS_HONEY ∑> XCS_FLASH XCS_FLASH >> XCS_FLASH
DATA_FROM_HI1 14 TO (6/10) VREF SS-FRRV 🏬 2.5 XHSYNC XCLK 2.B MF_LED (MF_LED DATA_TO_HI1 C DATA_TO_HI1 (19) TO(B/10) TMS (TMS XHI_SCK1 XHI_SCK1 SS-XCS_VFD ∑> XCS_VFD

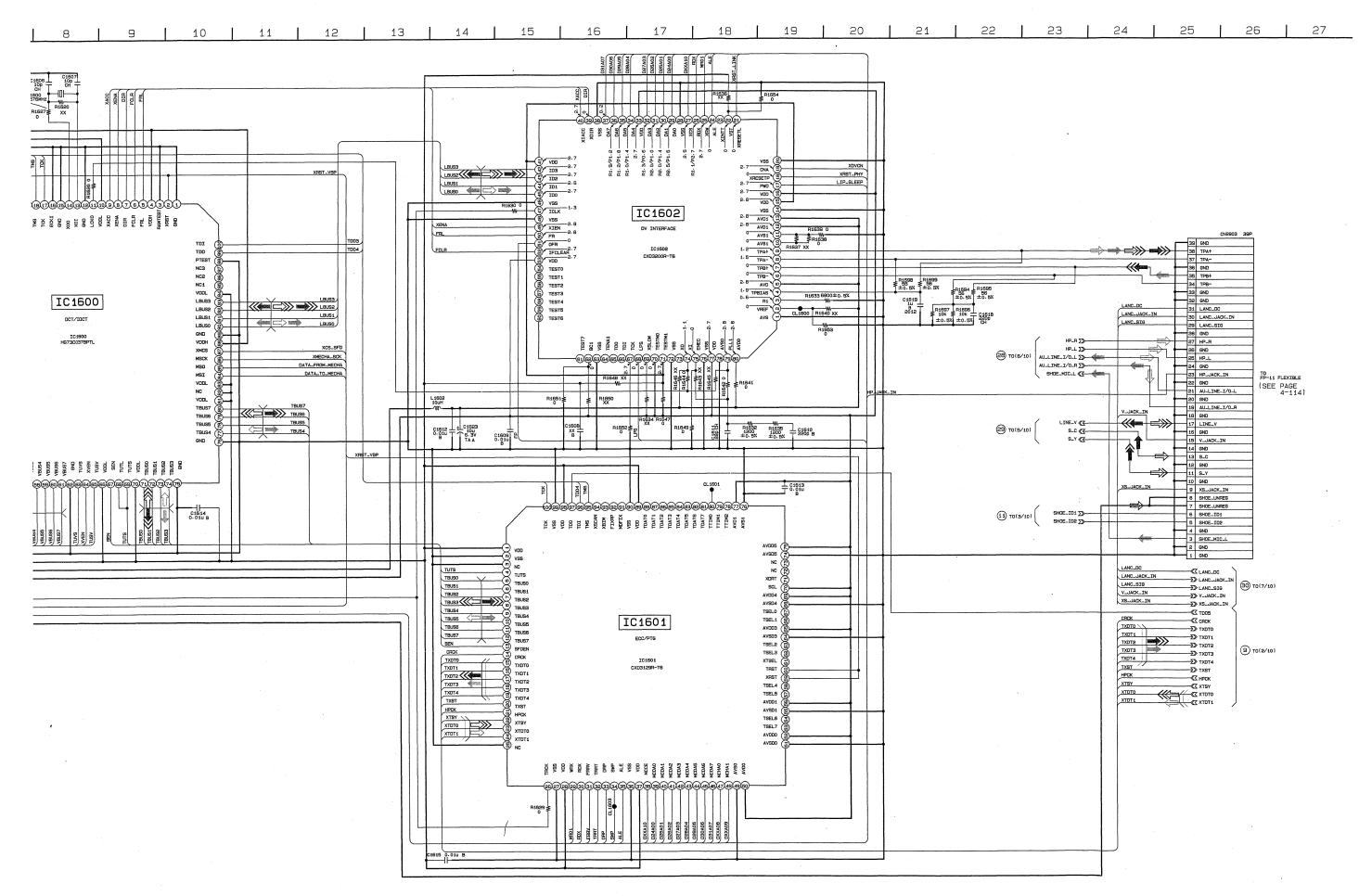
XCS_VFD ∑> XCS_VFD

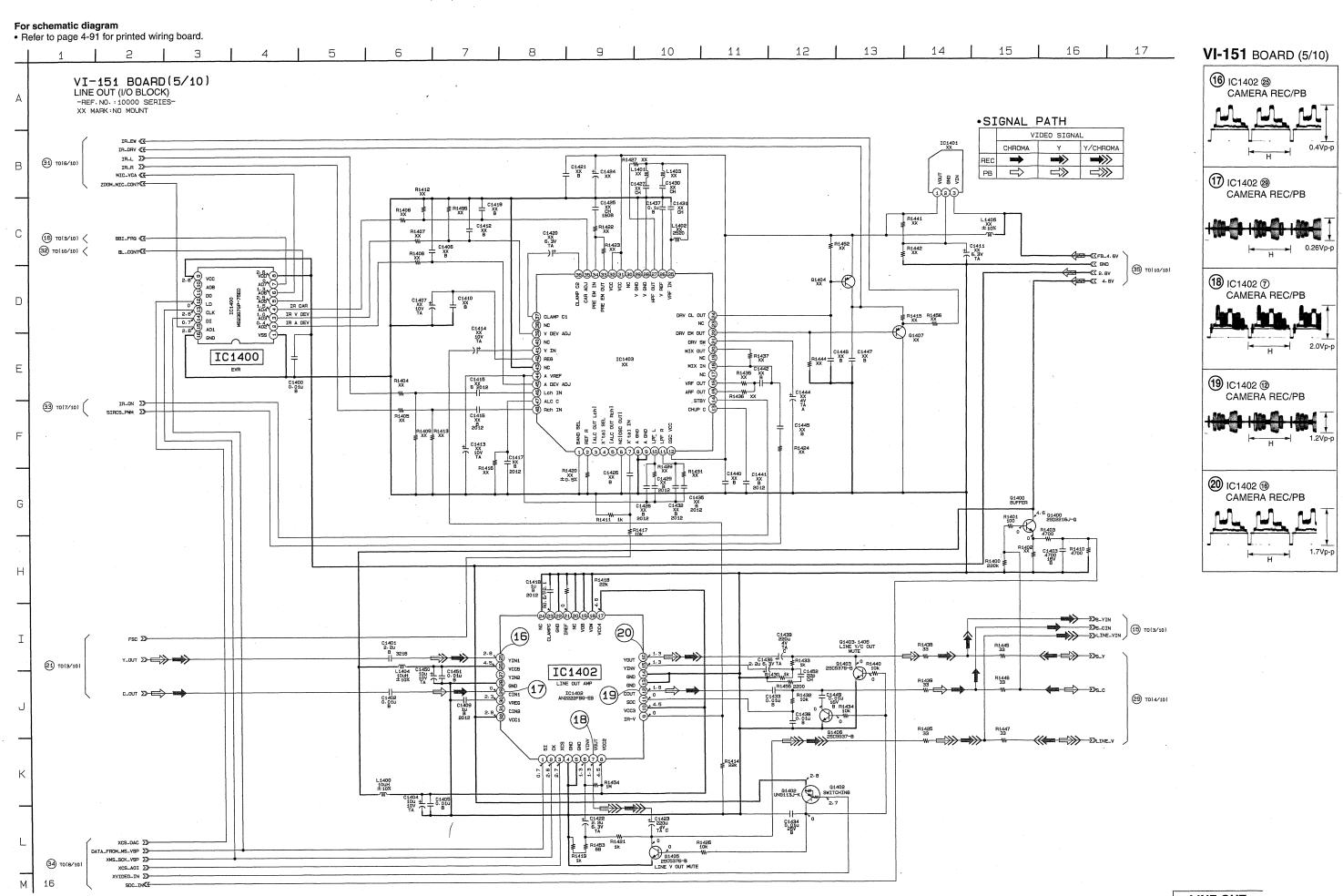
DATA_TO_MS_VSP ≪ DATA_TO_MS_VSP IC1502 CAM_PA3 CAM_PA3 ∑≫ MB90097PFV-G-110-BND TCK ≪ TCK 20 TO(4/10) CAM_PA2 17) TO(7/10) CAM_PA2 SS---TDO ∑≫TDO3 DATA_FROM_MS_VSP >> DATA_FROM_MS_VSP IC1502 CAM_PA1 CAM_PA1 >>-CAM_C3 CAM_C1 CAM_C1 CAM_Y7 CAM_Y6 CAM_Y5
CAM_Y3
CAM_Y2
CAM_Y2
CAM_Y2
CAM_Y0 XCS_CAMERA SS-XCS_CAMERA XRST_VSP XRST_VSP CHARACTER GENERATOR XCS_BBI XCS_BBI ∑> XSH_WAKE_UP XSH_WAKE_UP 55-CAM_DD_ON CAM_DD_ON 5>-16 VTR_DD_ON VTR_DD_ON S ZOOM_SW_AD ZOOM_SW_AD >>>

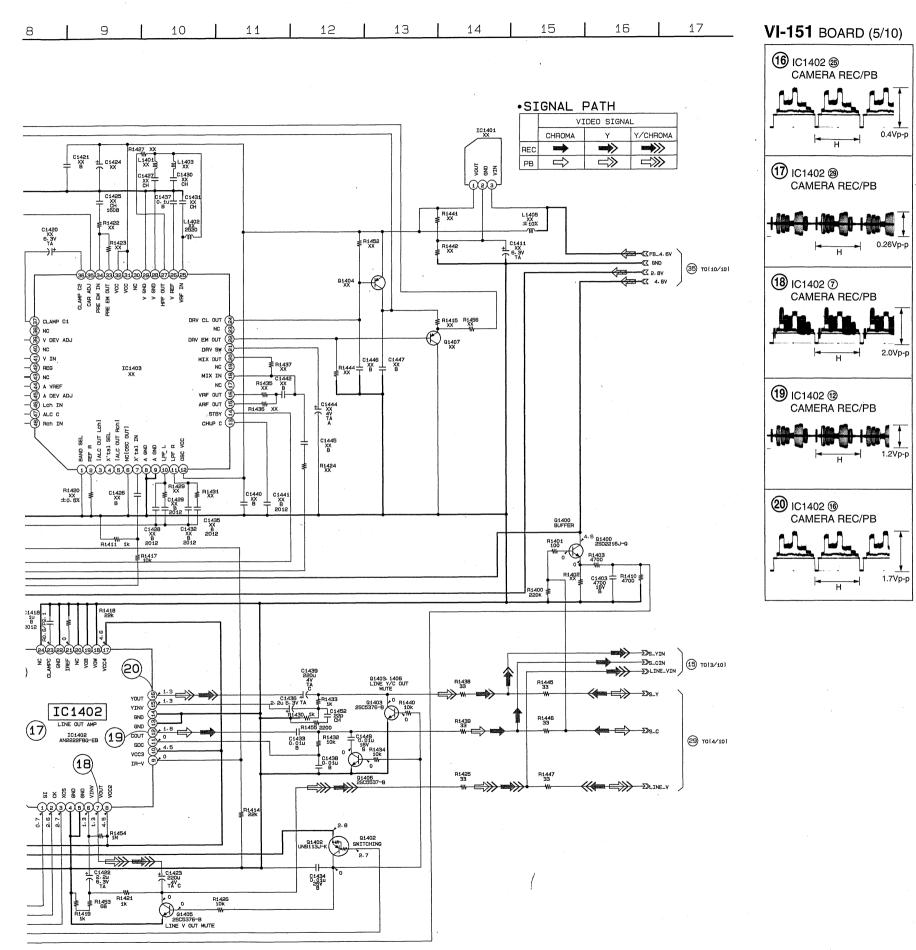


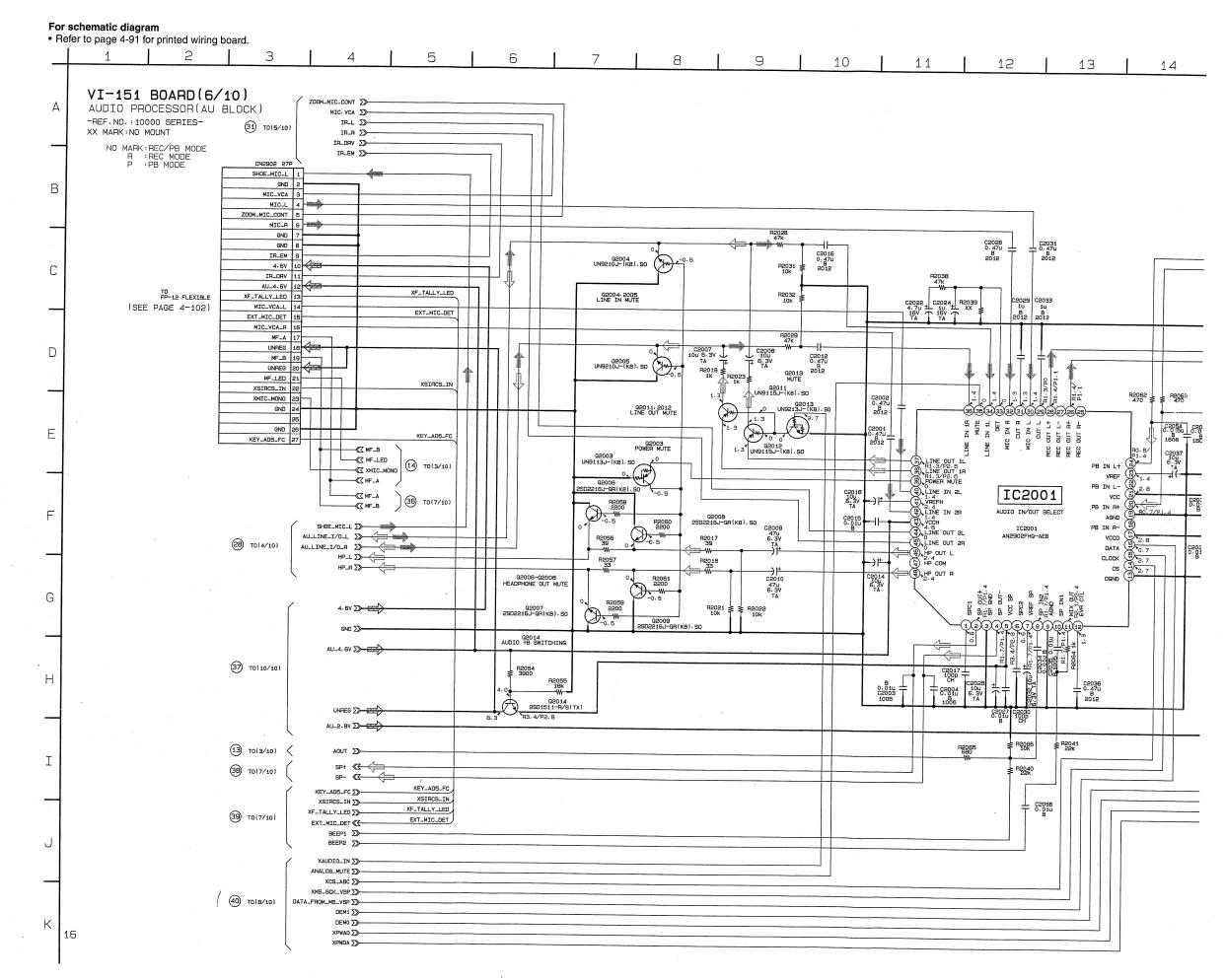
VIDEO INTERFACE VI-151 (3/10)

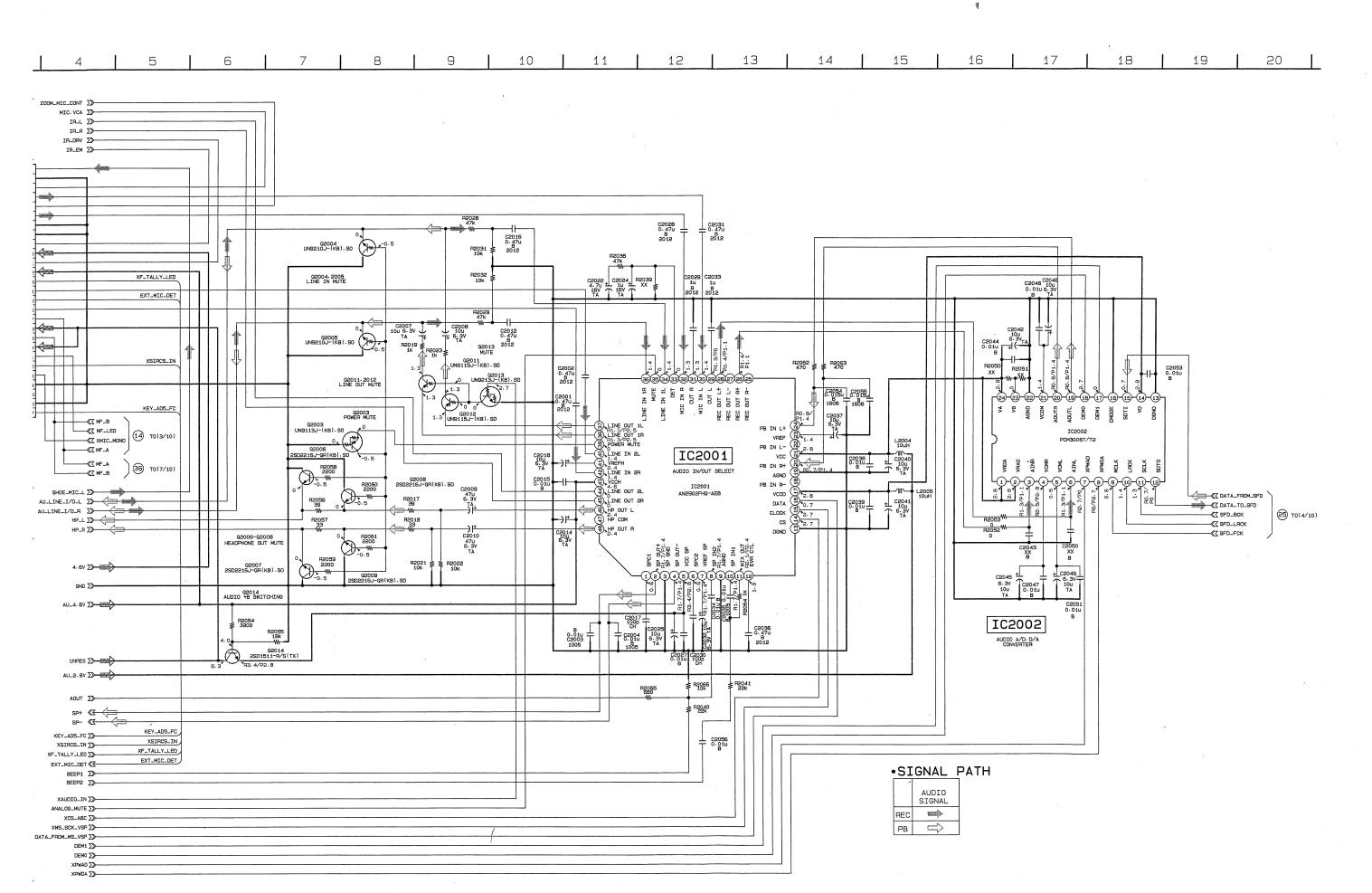












For schematic diagram • Refer to page 4-91 for printed wiring board. 17 18 19 **|** 20 15 16 8 9 10 | 11 | 12 | 13 14 5 2 VI-151 BOARD(7/10) EXT_MIC_DET EXT_MIC_DET \$50-HI CONTROL(HI BLOCK) XSIRCS_IN XSIRCS_IN >>> 02202: 2221 BUFFER 216J-GR(KB). SO MELODY_EN -REF. NO. : 10000 SERIES-' XF_TALLY_LED XF_TALLY_LED >> 39 TO(6/10) IC2203 KEY_AD5_FC BEEP2 NO MARK:REC/PB MODE R :REC MODE P :PB MODE LANC IN/OUT BEEP2 ∑> ACC DOMY 22 CHIME_SCK (41) TO(9/10) CHIME..SDA ∑≫-L2202 1UH XSYS_RST 0 C2211 LANC ON SWITCH UN9111J-(KB). SO R2233 2700 XRST_FROM_HI∑≫-XCS_MECHA 02203 BUFFER 0 1 12208 4700 8L 02220 2.8 UN3213J−(K8).80 ≱ | C2211 | C2211 | O. 10 F 42 TO(8/10) XHI_SCK1 ∑> G2213, 2214 SWITCHING HI_S HI_SI DATA_TO_HI1 >> SIRCS_PWM >>-NC GND (C.1. IR_ON IR_ON ∑≫ G2217-221 LED DRIVE UNREG 1 DATA_FROM_HI2 5>-XCS_OSD xcs_usu ∑>> 02213 XP4401-TXE N.C. 3 XHI_SCK2 ∑> C2225 0.1u F R2236 470k XSW_LED_VTR 4 G2200 9213J-(KB).50 24) TO(3/10) KEY_ADO XF_TALLY. LINE_OUT_V >> C2226 0. tu F KEY_AD1 KEY_AD1 XBST_FROM_HT 55---CONTROL SWITCH BLOCK XEJECT_SW Q2216 Q2216 SWITCH 258624-XEJECT_SW 8 EVER_3. 0V ∑> LANC_DC XIR_LED_ON XIR_LED_ON 9 (SEE PAGE 4-88 2. BV 10 258 XCAM+STBY_SW 14
XCHOTO STBY_SW 45
XCHOTO STBY_SW 45 BATT/XEXT XPHOTO_STBY_SW 15 L2201 10uH ±10% XS/S_SW XIR_LED_ON CHARGE_INH -38868838838838838838858 CHARGE_INH ∑> C2215 C2215 C2212 C2212 TA A C7 TA XSW_LED_VTR D2200 MA728-TX BATT_FET_ON D2201 PS2200 MA728-TX 0.4A (51) TO(10/10) AVREF_0 BATT_SIG SHOE_ON IC2201 -(n) LANC_IN AVREF_U

OND

H2295 1k

H2295 1k

H2296 1k

H2297 1k

CHIME_AD1

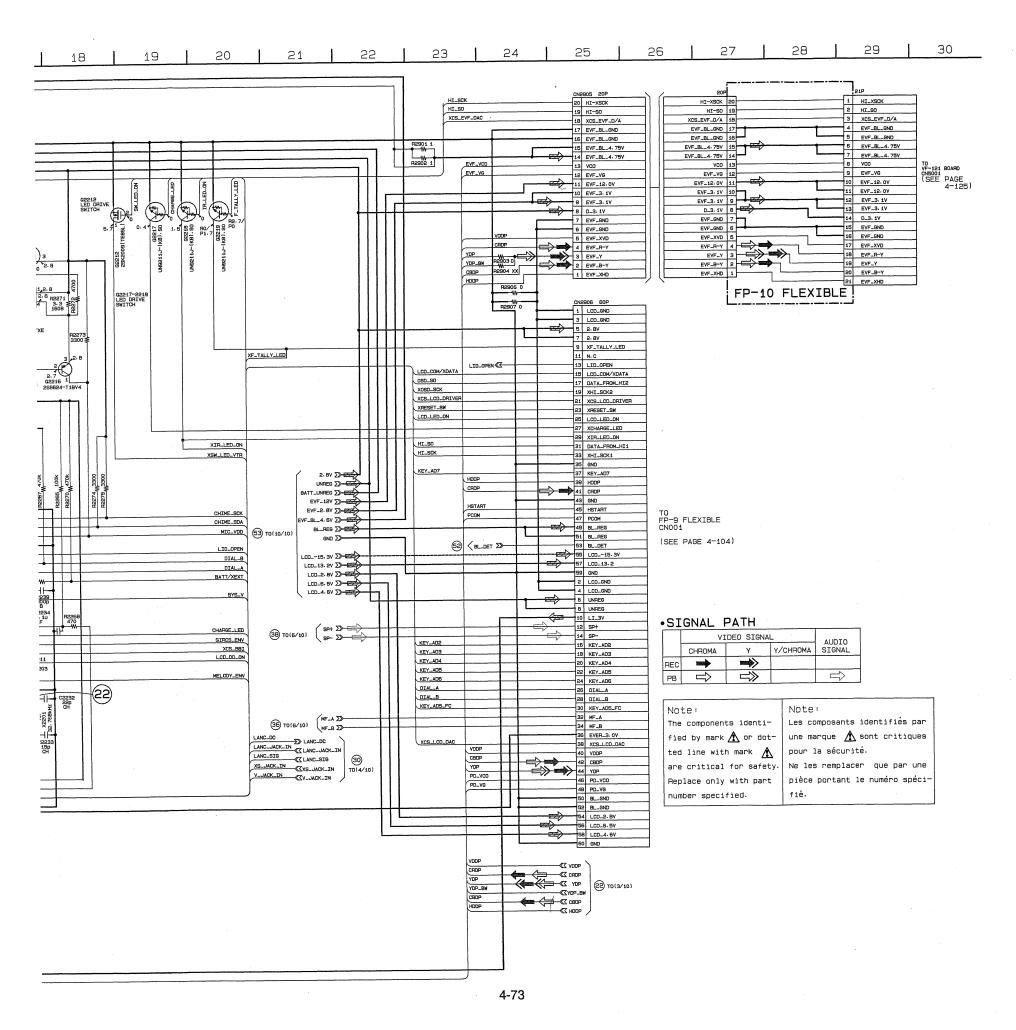
CHIME_AD0

H2297 1k BATT_SIG ∑>-- $oldsymbol{\Lambda}$ SHOE_ON ∑> CHIME_SCK BACK-UP- RESET XCS_CAMERA T_CHARGE_ON ∑ XSIRCS_IN EVF_DD_ON VSS PREEND VIN PREEND (53) то (EAE-DO-ON 239-MIC_VDD CHIME_SDA CHIME_SCK R2278 100 LCD_DD_ON VTR_DD_ON CHIME_PWB_CONT LID_OPEN VTR_DD_ON ∑≫ XSH_WAKE_UP
XSYS_RST CL220: DIAL_B CN2904 2OP

LANC_SIG 1

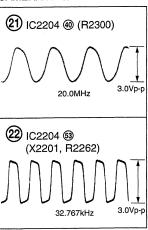
EVF_BL+ 2 XSH_WAKE_UP DIAL B (B IC2204 LANC_SIG OVBAT VOUT OF DIAL A 9 CS RESET IN EVF_DD_ON R2213 W BATT/XEXT EVF_DD_ON HI CONTROL EFN_BL- 3 EVF_VG 4 N. C.(L.CD_DD_ON SYS_V SYS_V EVF_VCO 5 0. 1u F GND 6 PD_VG 7 YVTD MODE SI VDD BATT_IN PD_VC0 XCAM+STBY_SW XCAM+STBY_SW XCS_FLASH 53> XS/S_SW XEJECT_SW CHARGE_LED CHAEGE_LED PD_VCO B XSH_WAKE_UP >> XSH_WAKE_UP H⁽¹⁾ xs/s sw CPC HSTART SIRCS_ENV H_START 9 SIRCS_ENV XSYS_RST XCC_DOWN XCS_BBI (FOR CHECK XHD/PSIG 10 XCC_DOWN XCS_CAMERA LCD_DD_ON XPHOTO_FREEZE FI2206 220 € PANEL_COM 11 TMS 12 XCS_CAMERA ∑ XPHOTO_FREEZE LCD_DD_ON D2208 R2234 MA728-TX 27 W TMS TCK TD06 HI_SCK XHT_SCK1 ∑> XPHOTO_STBY_SW XPHOTO_STBY_SW HI_SO XLANC_PWR_ON MELODY...ENV MELODY_ENV TCK 13 XLANC_POWER_ON HI_SI , XCS_MECHA DATA_TO_HI1 >> IR_LED_ON (21) x220.1 2. 768KHz CAM_PA1 ∑>-XCS_LCD_DRIVER 55b C5535 TDD 15 GND 16 SWP 17 XCS_LCD_DRIVER 32KHZ_IN LCD_COM/XDATA
INIT_CHARGE_ON 17) TO(3/10) LCD_COM_XDATA F_TALLY_LED C2237 C2235 —≪Z SWP CAM_PA3 ∑> 4 TO(1/10) RF_IN/LANC_JACK_IN 18 R2262 C2233 10M 15p 1608 CH IC2500 LANC_JAC G2901 UN9211J-(KB). SO REG LID_OPEN 5>-XS_JACK. XCS_BBI ∑> XCS_BBI_ VTR_DD_ON G2901 LANC ON SWITCH VTR_DD_ON ∑> CAM_DD_ON XLANC_ON_ R2240 100k R2241 100k R2242 100k R2243 XX R2244 XX (B) T0(2/10) R2235 1M COURT SOM

16



VI-151 BOARD (7/10) CAMERA REC/PB

ંસુ



DSR-PD100/PD100P

For schematic diagram • Refer to page 4-91 for printed wiring board. 4 **VI-151** BOARD (8/10) CAMERA REC/PB VI-151 BOARD(8/10) **23** IC2401 ① (X2400) MECHANISIM CONTROL (MD1 BLOCK) -REF.NO.:10000 SERIES-XX MARK: NO MOUNT MS74 XMS_SCK_VSP (MS75 NO MARK: REC/PB MODE R : REC MODE P : PB MODE (34) TO(5/10) DATA_FROM_MS_VSP < XVIDEO_IN << MS18 XCS_ADI << MS19 В MS7B XMS_SCK_DRP < MS79 DATA_FROM_MS_DRP < 2 TO(1/10) BEC_CBBTO << REC_CRRT1 €€ XCS_TRF < DEMO ≪≤ MS87 DEM1 XPWAD << XPWDA «~ 40 TO(6/10) ANALOG. MUTE XAUDIO_IN & MS21 XCS_ABC << D XMS_SCK_VSP << MS75 DATA_FROM_MS_VSP < MS75 DATA_FROM_MS_VSP < XRST_VSP (MS76 DATA_TO_MS_VSP_>>-MS74 XMS_SCK_VSP∑> (19) TO(3/10) FRRV < XCS_VFD << MS10B TRRV (C MS112 VREF ∑> MS118 CAM_VD ∑≫-VFI_VD >>--MS106 FRRV «- XRST_LINK «Z MS1: XRST_PHY << MS13 ALE (MS14 MS15 HP_JACK_IN ∑> WR01 (MS16 RDX **⟨**₹ MS107 G TRRT << MS92 XRST_VSP ≪ MS119 DFR << DATA_FROM_MS_VSP < MS76 DATA_TO_MS_VSP << MS77 LPS << MS74 XMS_SCK_VSP << MS61 DRP << 27 TO(4/10) MS84 Н LIP_SLEEP D24A00 (Z-D25A01 << MS2E D26A02 (KZ-MS25 D27A03 (Z-MS3C D28A04 (C-XDVCN ∑≫-SWP (D29A05 《~ D30A06 << D31A07 << DXXAO9 DXXA10 « XCS_SFD < MS7B XMS_SCK_DRP << MS79

DATA_FROM_MS_DRP <<

6 TO(2/10)

DATA_TO_MS_DRP

XRST_VSP (T-

ATF_ERR 5>>-

XCS_TRF <<

D_SWP <<

MSBO

MECHANISM CONTROL

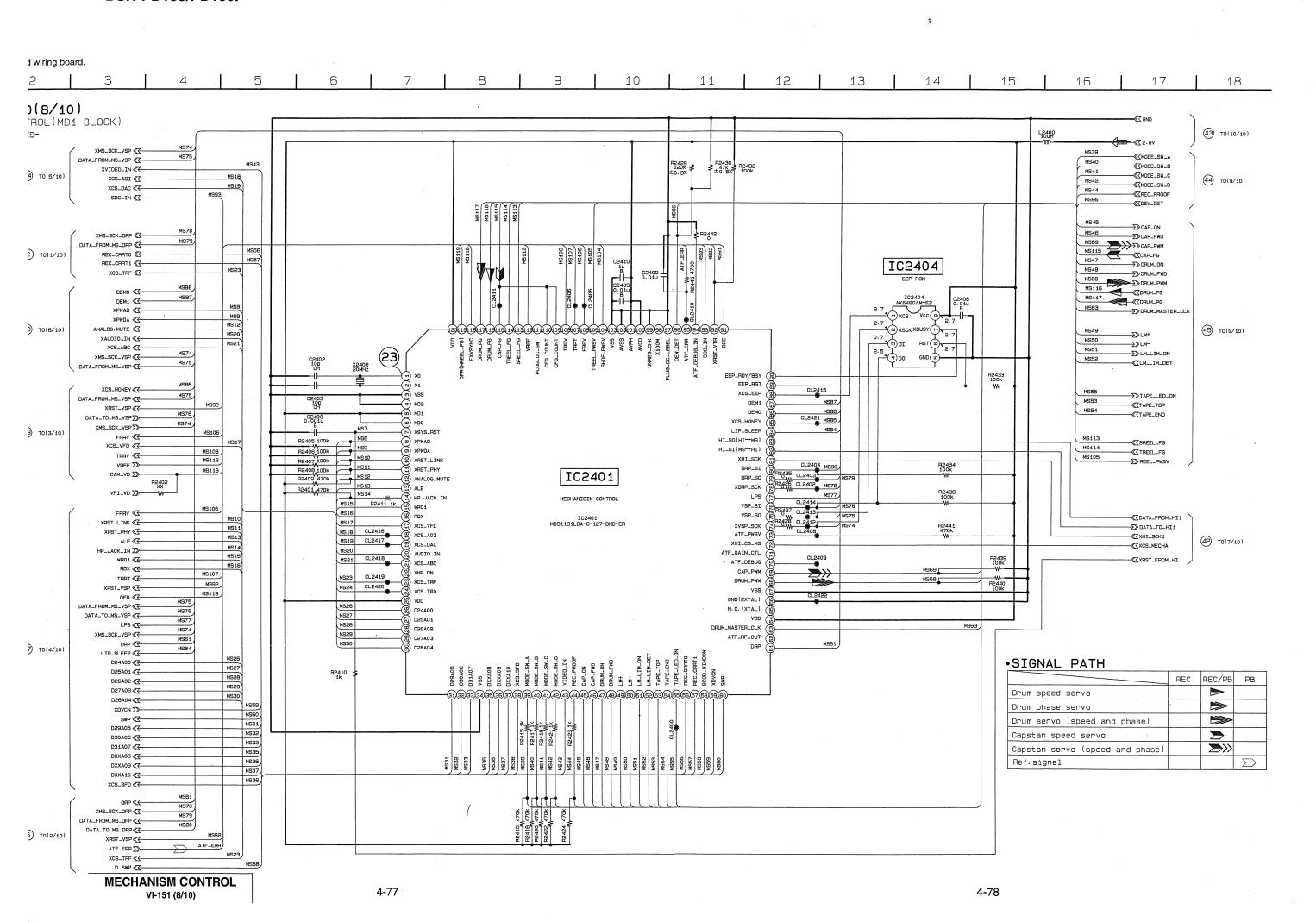
VI-151 (8/10)

ATF_ERR

4-76

К

16

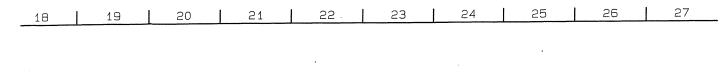


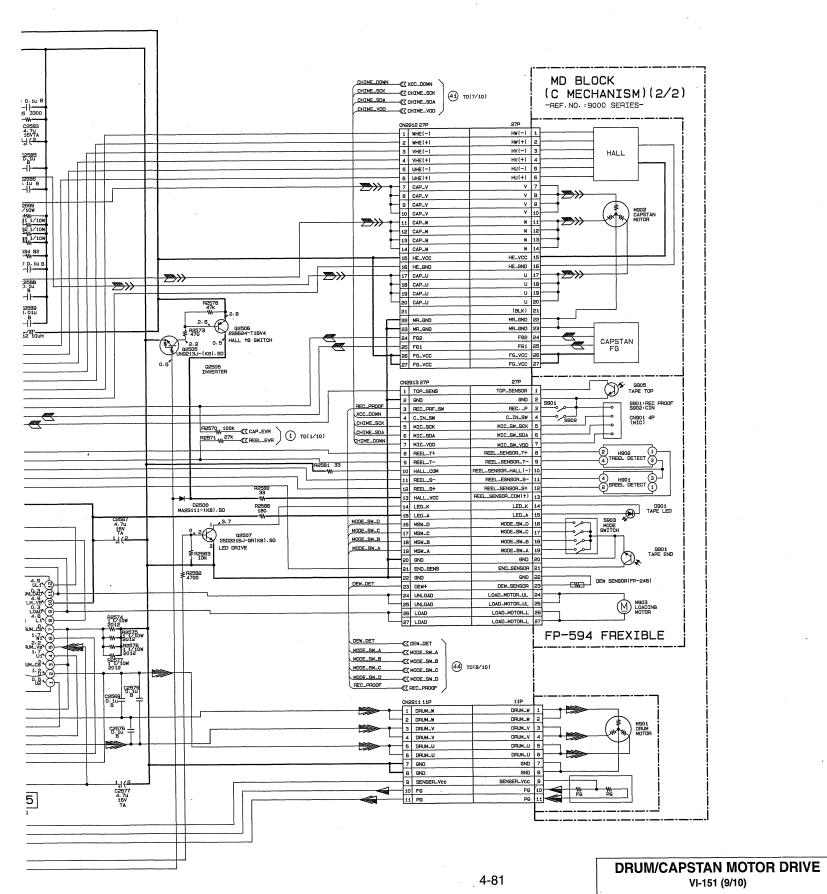
For schematic diagram Refer to page 4-91 for printed wiring board. • Refer to page 4-87 for FP-594 flexible board. 5 9 10 6 8 11 12 | 13 | 14 | 15 | 16 | 17 | 18 19 20 VI-151 BOARD(9/10) DRUM/CAPSTAN MOTOR DRIVE NO MARK:REC/PB MODE R :REC MODE R :REC MODE P :PB MODE -REF.NO.:10000 SERIES-XX MARK: NO MOUNT ~~~ UNREG SS-R2569 2200 C2573 4.70 7+ 16V TA CAP_VSC 《 R2530 R2572 33k 10k **>>>** CAP_VS ∑>----02583 4.70 16VTA C2585 B IC2504 CAPSTAN MOTOR DRIVE 33 R2534 B2 C2589 0.01u B CAP_FWD CAP_FWD∑> CAP_PWM CAP_FG CAP_PWM DRUM_ON 53 L2511 8 DRUM_PWM >>-DRUM_FG << DRUM_PG << (45) TO(8/10) ASTER_CLK∑ LM-LM_LIM_ON H2570 100k ≪ CA H2571 W 27k ≪ RE LM_LIM_ON∑≫-LM_LIM_DET << TAPE_TOP< C2590 100p CH SREEL_FG (TREEL_FG << C2551 0. ju 82<u>5</u>45 ---||--R2549 4700 D2500 MA2S111-(KB).SO **28** (27) 2. 7 B END_OUT

R2550 0.30 B 1.3 TOP_IN 4.7u 16V C2591 100p CH ₹R2583 ₹R2582 4700 1.4 DRUM_CLK IC2503 2.7 DRUM_F/R 0.3 (F) UL2 0.3 (F) UNLOAD 0.3 (F) LOAD 0.4 (F) LOAD 0.4 (F) LOAD 0.5 (F) LOAD DRUM MOTOR DRIVE 0. 2 B SU IC2503 CXA8062R-EB W P2575 W 2012 W R2576 W 2012 R25776 W 2012 SIGNAL PATH C2562 | C2563 | C2564 REC REC/PB PB Drum speed servo Drum phase servo C2576 十 Drum servo (speed and phase) **>** Capstan speed servo Capstan servo (speed and phase) C2559 R2510 0.1u ₹ 3300 IC2505 1 97886 丁 R2546 150k H2551 \$ ±0.5% DRUM/LOADING MOTOR DRIVE R2547 10k M | ₁₆

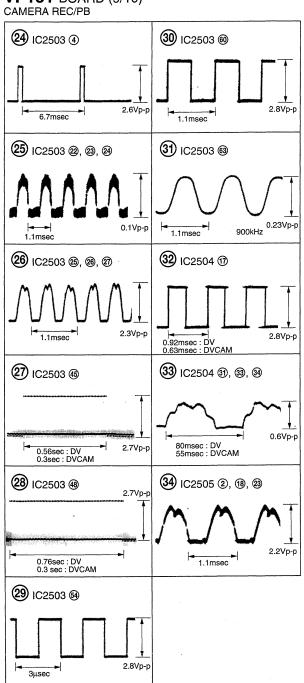
4-80

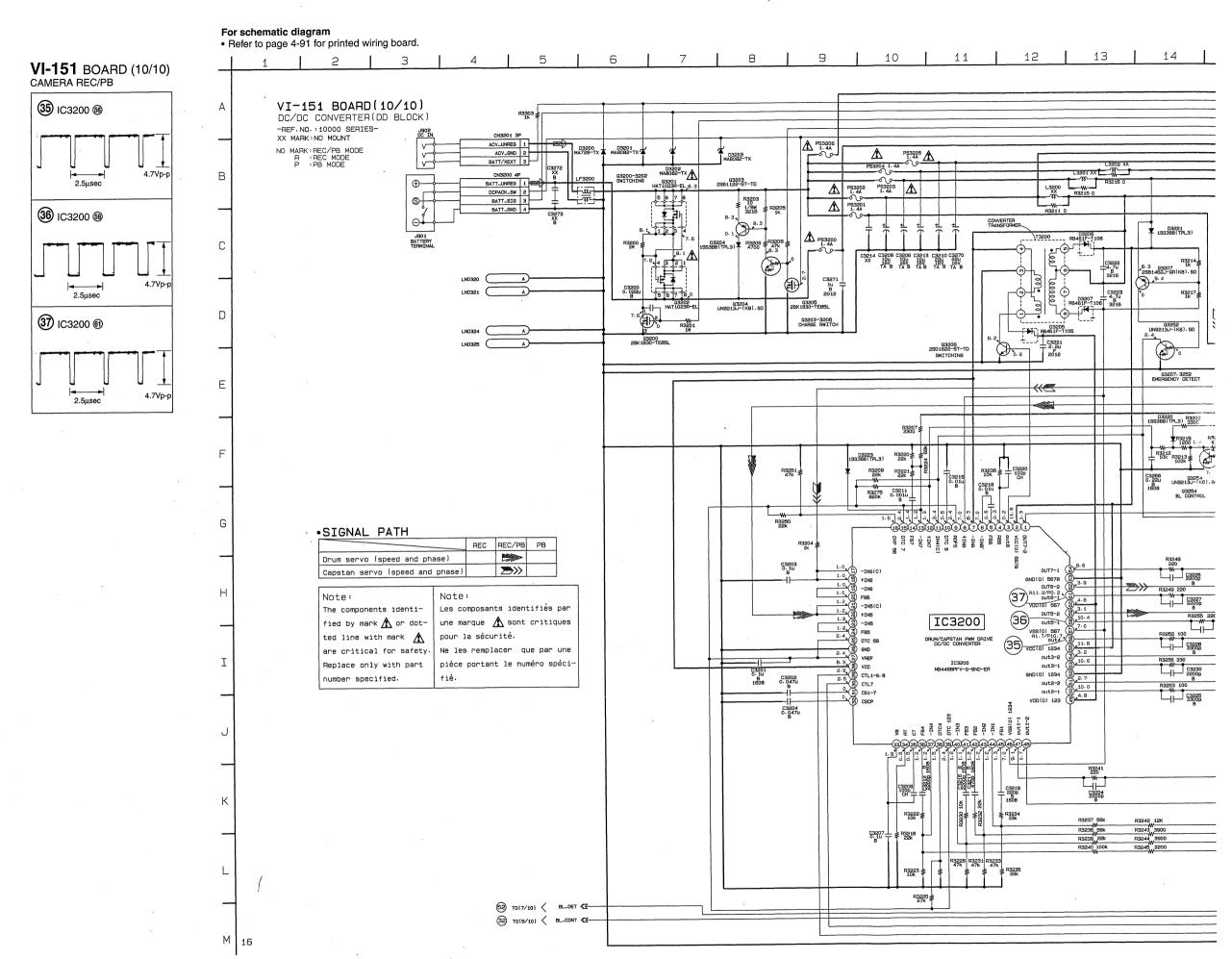
4-79

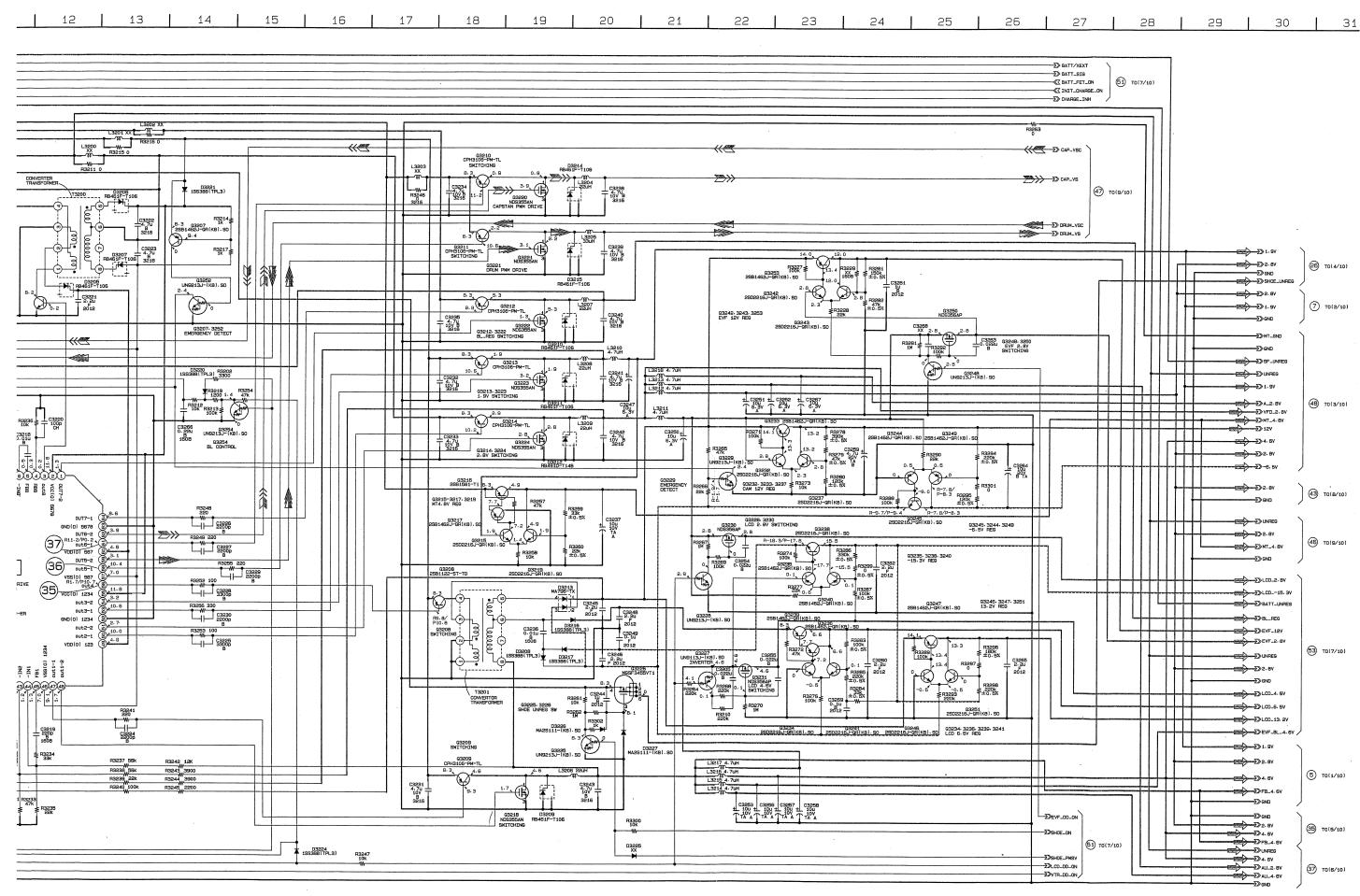


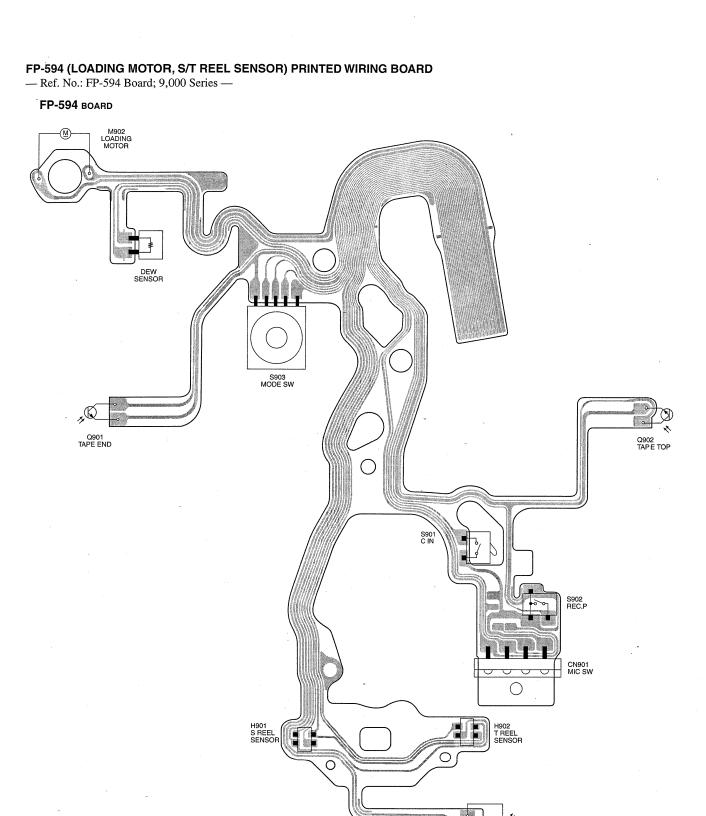


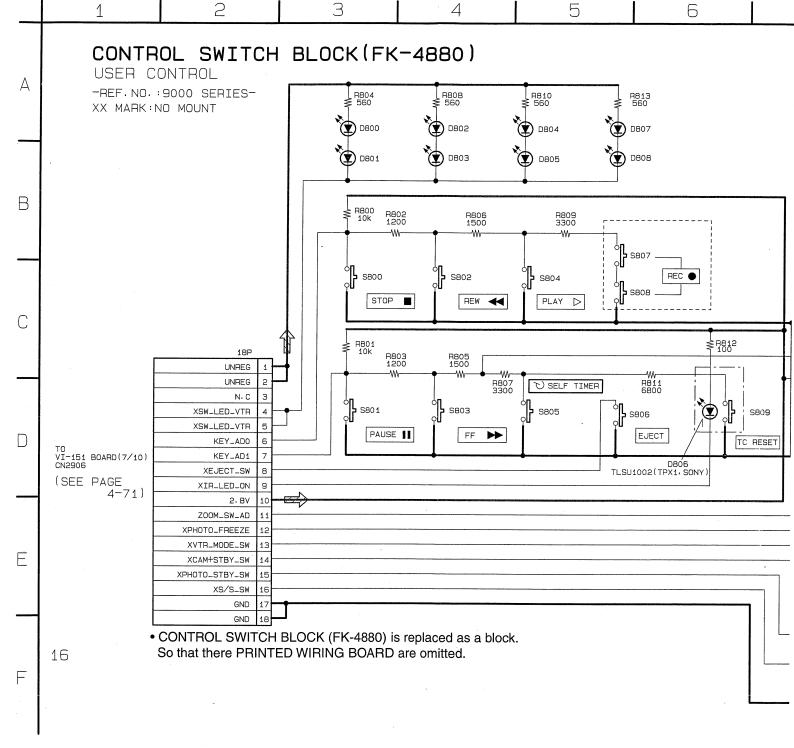
VI-151 BOARD (9/10)



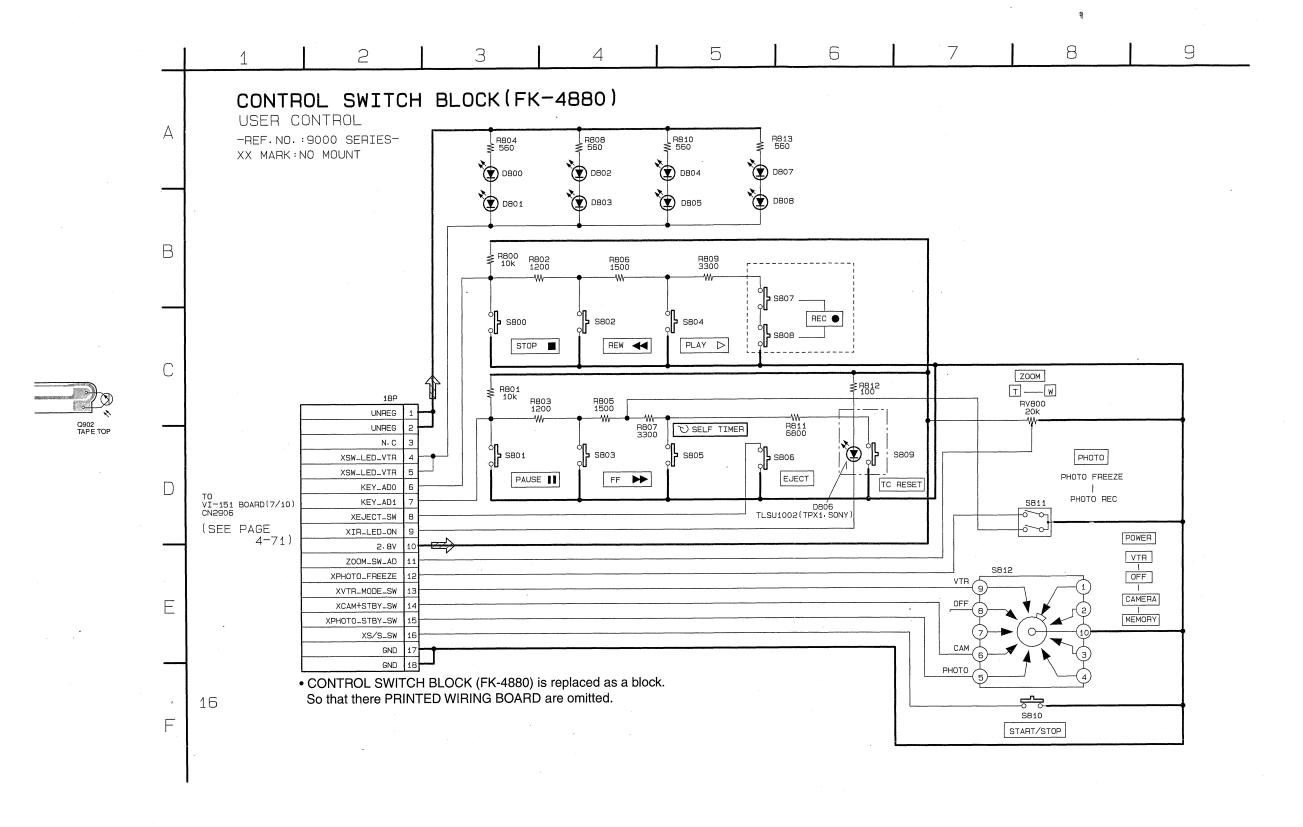








For printed wiring boards
• Refer to page 4-82 for FP-594 board schematic diagram.



REEL SENSOR

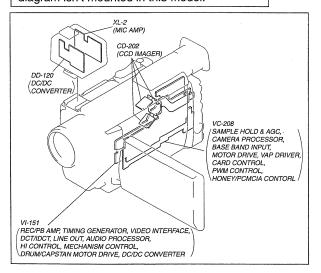
| VI-151 BOARD (SIDE A) | | | |
|---|--|---|---|
| C1401 A-3 C1402 A-3 C1404 A-2 C1405 A-2 C1409 B-3 C1418 A-2 C1423 B-1 C1423 B-1 C1433 A-2 C1434 A-1 C1436 B-2 C1439 B-2 C1439 B-2 C1439 B-2 C1439 B-2 C1439 B-2 C1450 B-3 C1451 A-3 C1451 A-3 C1451 A-3 C1452 A-1 C1503 B-2 C1503 B-2 C1503 B-2 C1503 B-2 C1507 C-2 C1512 B-2 C1501 B-2 C1501 A-4 C1601 A-4 C1602 A-4 C1603 A-4 C1601 A-4 C1601 A-4 C1602 A-4 C1603 A-4 C1603 A-4 C1604 B-3 C1615 A-4 C1617 A-4 C1611 A-4 C1618 B-3 C1615 C-1 C1902 A-6 C1903 B-6 C1904 C-5 C1908 A-6 C1909 A-5 C1910 A-6 C1903 B-6 C1904 C-5 C1908 A-6 C1909 A-5 C1910 B-6 C1909 A-5 C1910 B-6 C1909 B-1 C2040 C-5 C1908 B-1 C2040 C-1 C2041 B-1 C2042 C-1 C2043 B-1 C2040 C-1 C2040 B-1 C2040 C-5 C2409 D-6 C2500 B-1 C2040 C-5 C2409 D-6 C2500 B-1 C2051 B-1 C2040 C-1 C2041 B-1 C2042 C-1 C2043 B-1 C2044 C-1 C2045 B-1 C2046 C-1 C2047 B-1 C2048 C-1 C2049 B-1 C2050 | C3244 C-7 C3246 E-7 C3246 E-7 C3246 E-7 C3248 E-8 C3249 E-8 C3255 E-9 C3260 D-7 C3262 D-7 C3262 D-7 C3269 D-9 C32901 C-9 C32901 C-7 C32901 C-9 C | Q3205 C-8 Q3206 C-8 Q3216 C-7 Q3217 C-7 Q3218 C-7 Q32219 C-7 Q3225 C-7 Q3226 C-7 Q3231 E-9 Q3234 C-7 Q3235 E-7 Q3236 D-7 Q3239 D-7 Q3240 D-7 Q3241 D-7 Q3242 D-7 Q3235 E-7 Q3236 D-7 Q3237 E-2 R1418 A-2 R1419 B-2 R1421 B-2 R1421< | R2416 C-6 R2417 C-6 R2418 C-6 R2419 C-6 R2420 C-6 R2421 C-6 R2422 C-6 R2423 C-6 R2425 D-6 R2425 D-6 R2427 C-6 R2428 C-6 R2428 C-6 R2429 D-6 R2430 C-5 R2430 C-6 R2450 B-8 R2506 B-8 R2506 B-8 R2506 B-8 R2507 B-7 R2508 B-8 R2511 B-8 R2510 B-7 R2506 C-7 R3206 C-7 R3207 C-7 R3208 C-7 R3200 C-7 |

For printed wiring boards • This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.

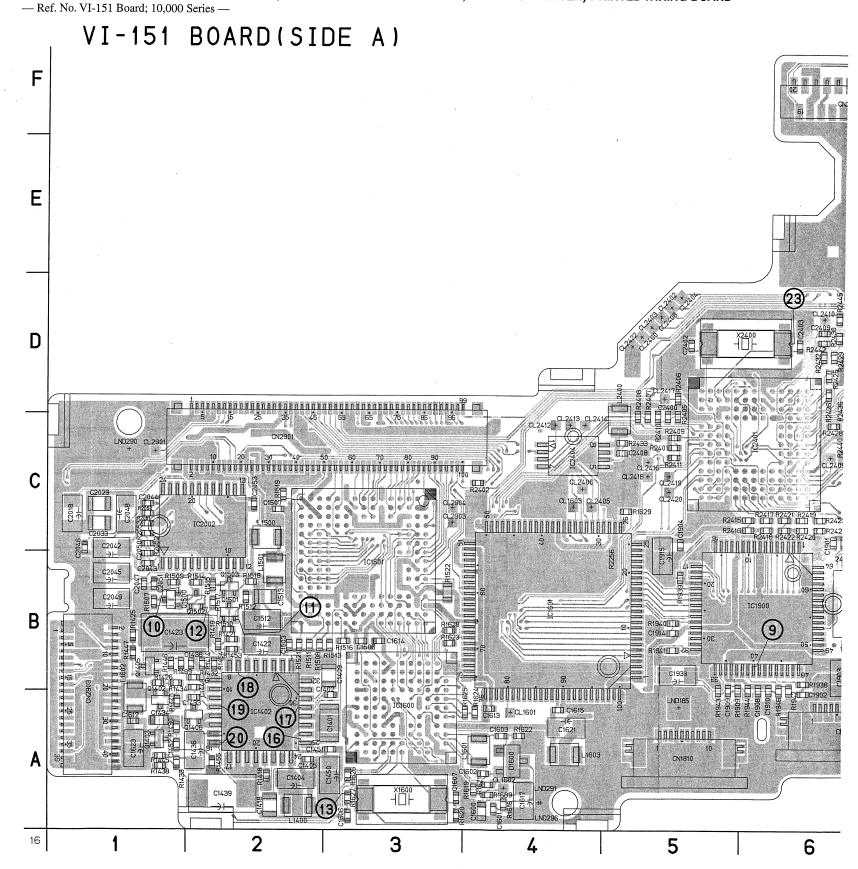
• Chip parts

Transistor

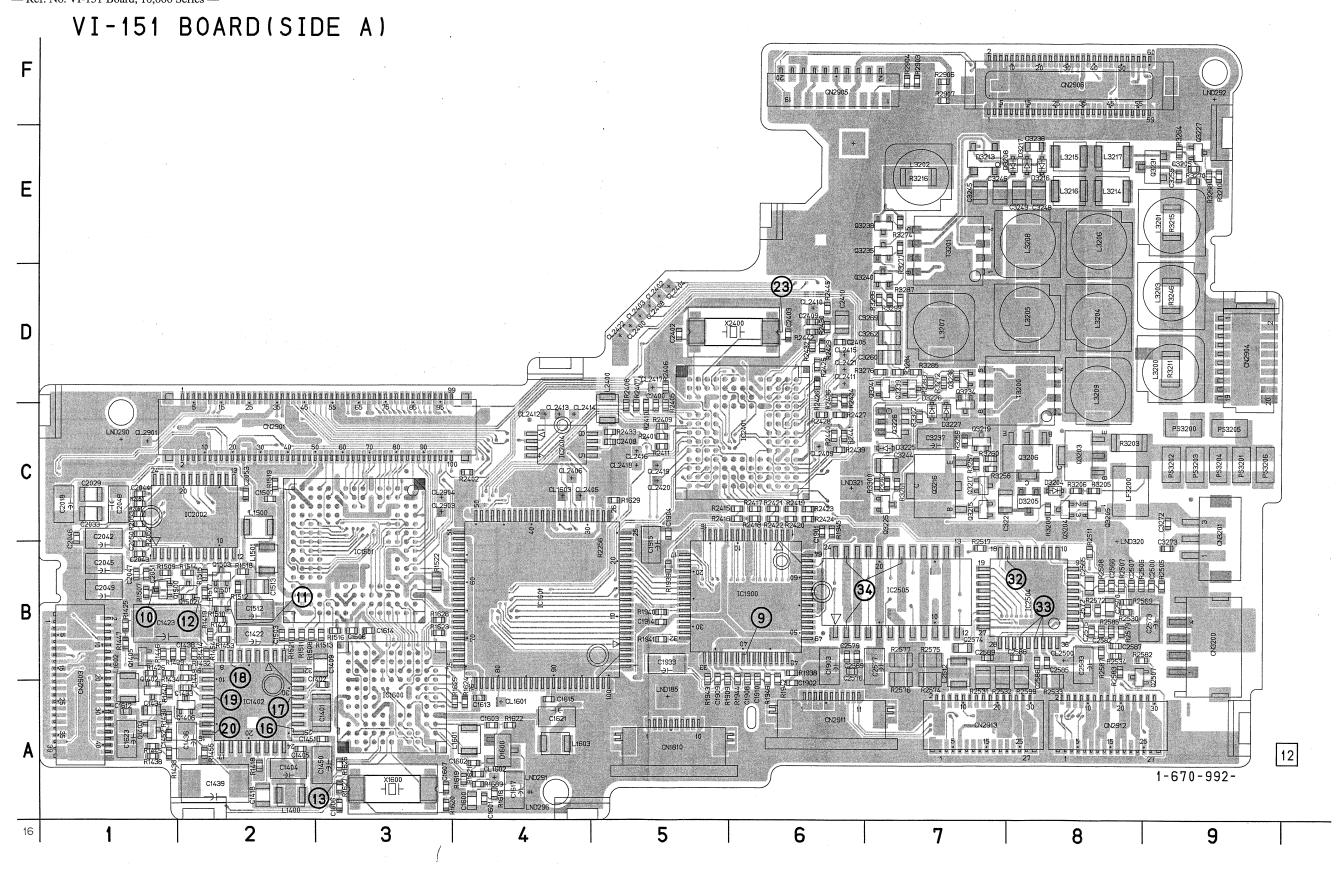
There are few cases that the part printed on this diagram isn't mounted in this model.



VI-151 (REC/PB AMP, TIMING GENERATOR, VIDEO INTERFACE, DCT/IDCT, LINE OUT, AUDIO PROCESSOR, HI CONTROL, MECHANISM CONTROL, DRUM/CAPSTAN MOTOR DRIVE, DC/DC CONVERTER) PRINTED WIRING BOARD



— Ref. No. VI-151 Board; 10,000 Series —



VI-151 I C1403 A-C1406 A-C1407 B-C1410 B-

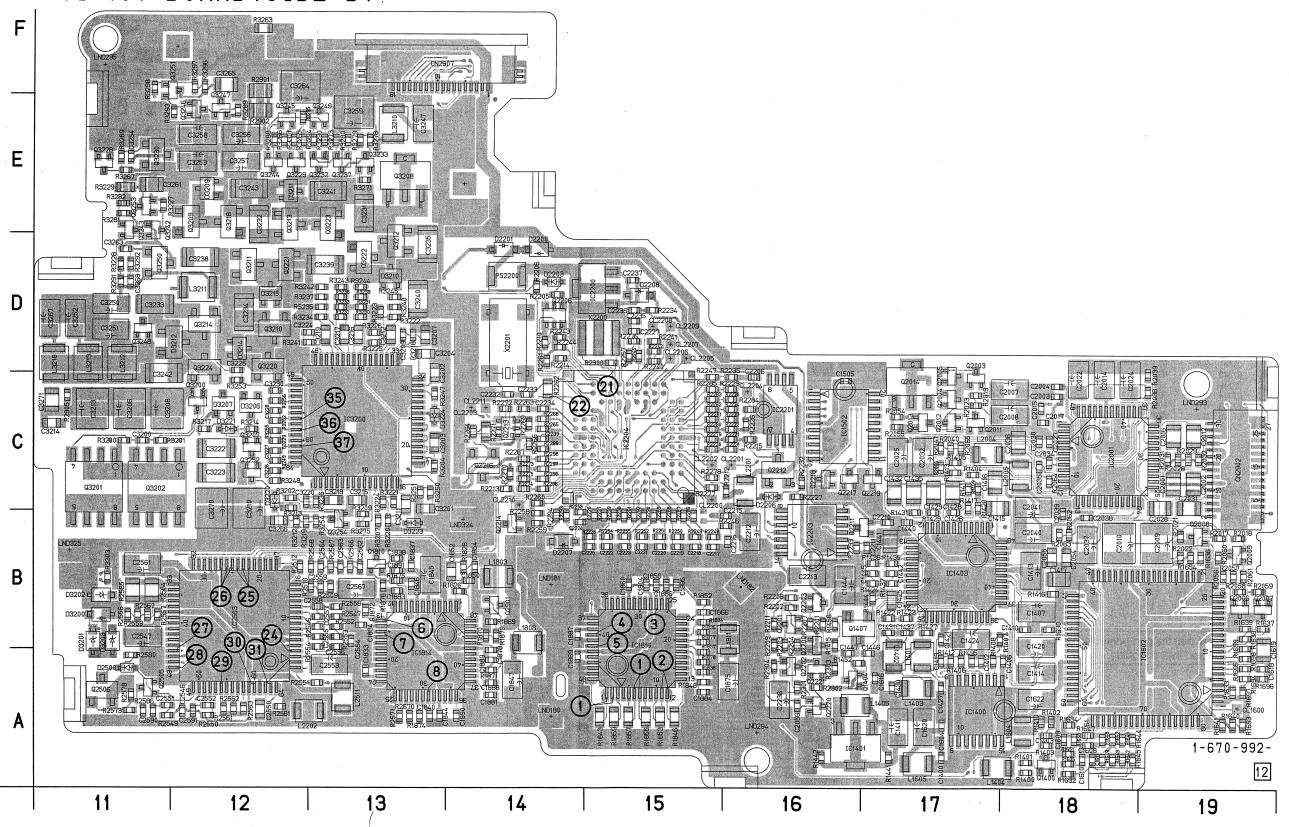
C1413 B-C1447 C1505 C1620 C1622 C1834 C1837 C1838 C1846 C1847 C1856 C1860 C1875 C1878 C1881 C1885

C1886 C1887 C1890 C1891 C2001 C2003 C2004 C2007 C2008 C2010 B-C2012 C-C2014 C-C2015 C-

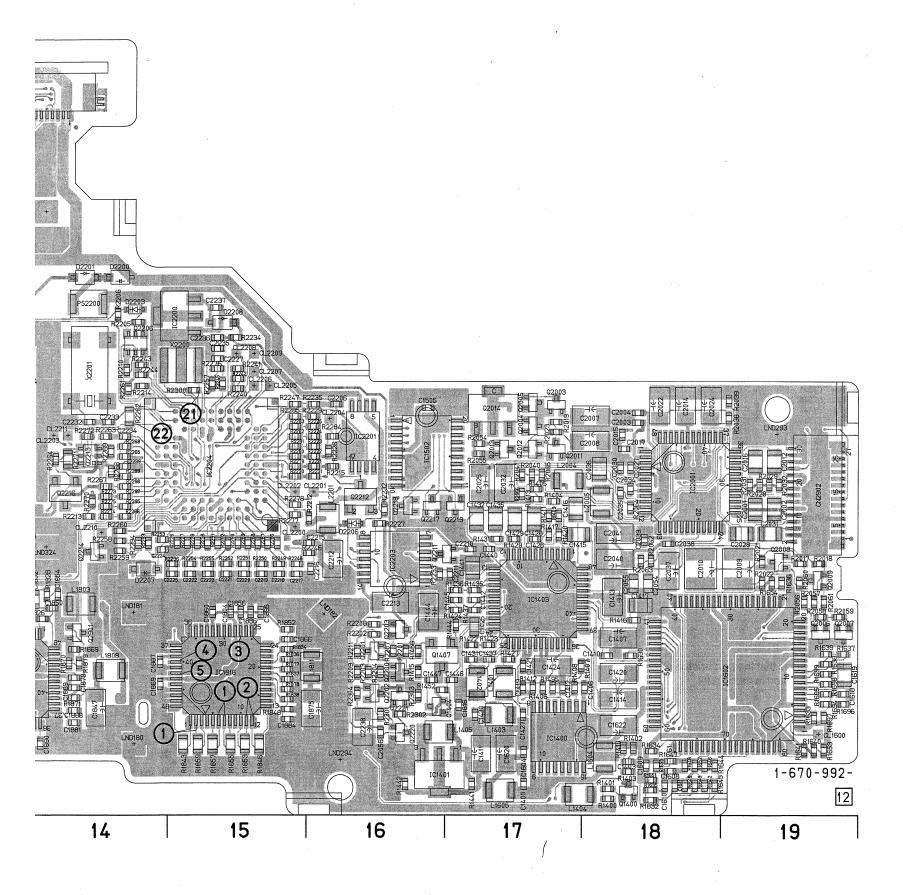
VI-151 BOARD(SIDE B)

- Ref. No. VI-151 Board; 10,000 Series -

10



SOR,) PRINTED WIRING BOARD

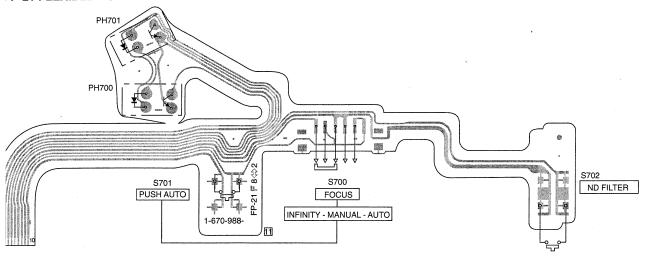


| VI_151 | BOARD | (SIDE | R |
|--------|-------|-------|---|
| VI-101 | BUARD | IDIDE | D |

| C-1400 |
|------------|
| C2010 B-18 |

-21 (FOCUS SW) FLEXIBLE BOARD

FP-21 FLEXIBLE BOARD

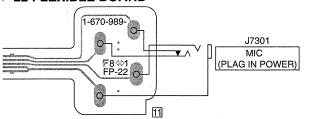


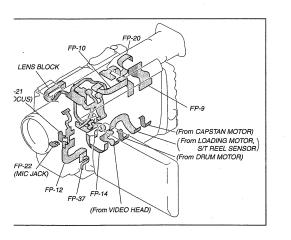
MA-333 BOARD

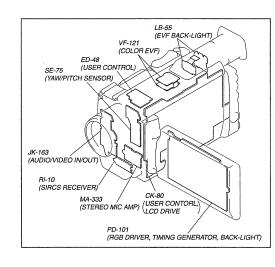
| 7300 | A-1 | I C7348 | B-2 | I R7313 | A-1 |
|------|------------|---------|------------|---------|-----|
| 7301 | D-3 | C7350 | B-2 | R7314 | A-3 |
| 7301 | A-2 | C7351 | D-2 | R7315 | A-3 |
| | A-2 A-2 | | D-2 D-3 | | |
| 7305 | | C7352 | | R7316 | A-3 |
| 7306 | A-2 | C7353 | D-2 | R7317 | A-1 |
| 7307 | A-3 | C7354 | D-3 | R7318 | B-3 |
| 7308 | A-2 | C7355 | D-2 | R7319 | B-2 |
| 7309 | A-3 | C7356 | C-3 | R7320 | B-1 |
| 7310 | A-2 | C7357 | D-3 | R7321 | B-2 |
| 7312 | A-3 | | | R7322 | B-3 |
| 7313 | A-2 | CN7300 | | R7323 | C-1 |
| 7314 | A-3 | CN7301 | | R7324 | B-1 |
| 7315 | A-2 | CN7302 | | R7326 | B-3 |
| 7316 | A-3 | CN7303 | | R7327 | B-3 |
| 7317 | A-1 | CN7304 | | R7328 | B-1 |
| 7318 | A-2 | CN7305 | D-1 | R7329 | D-1 |
| 7319 | A-3 | | | R7331 | B-3 |
| 7320 | A-3 | D7300 | A-1 | R7332 | B-3 |
| 7321 | A-1 | D7304 | E-2 | R7335 | B-1 |
| 7322 | B-1 | D7305 | E-2 | R7337 | B-1 |
| 7323 | B-1 | | | R7339 | B-1 |
| 7324 | A-1 | FB730 | A-3 | R7342 | B-2 |
| 7325 | B-3 | FB731 | A-3 | R7343 | B-2 |
| 7326 | B-3 | 1 | | R7344 | B-2 |
| 7327 | D-1 | IC7301 | B-2 | R7345 | C-2 |
| 7328 | B-2 | IC7302 | D-2 | R7346 | B-2 |
| 7329 | B-1 | IC7303 | D-2 | R7347 | B-2 |
| 7330 | B-1 | | | R7348 | B-2 |
| 7331 | B-3 | Q7300 | D-1 | R7350 | D-2 |
| 7332 | B-3 | Q7301 | B-1 | R7351 | D-3 |
| 7333 | B-3 | Q7302 | B-1 | R7352 | D-3 |
| 7336 | B-3 | Q7303 | B-1 | R7353 | D-2 |
| 7337 | B-3 | Q7304 | D-3 | R7354 | D-3 |
| 7338 | B-2 | | | R7355 | D-2 |
| 7339 | B-3 | R7302 | A-3 | R7356 | D-3 |
| 7340 | B-2 | R7303 | A-1 | R7357 | D-3 |
| 7341 | B-3 | R7304 | A-1 | R7358 | D-2 |
| 7342 | B-3 | R7305 | E-2 | R7359 | D-3 |
| 7343 | B-2 | R7306 | E-2 | R7360 | D-2 |
| 7344 | C-1 | R7309 | A-2 | R7361 | E-2 |
| 7345 | C-3 | R7310 | A-2 | R7362 | E-1 |
| 7346 | C-3 | R7311 | E-2 | R7363 | D-3 |
| 7347 | B-3 | R7312 | E-2 | 1 | |

-22 (MIC JACK) FLEXIBLE BOARD

P-22 FLEXIBLE BOARD







For printed wiring boards

- This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.
- Chip parts

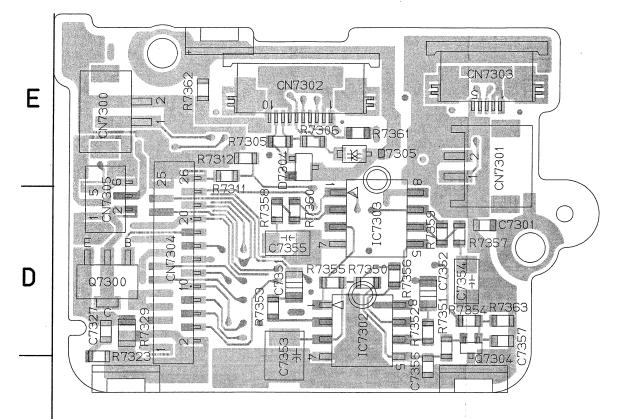
Transistor Diode

There are few cases that the part printed on this diagram isn't mounted in this model.

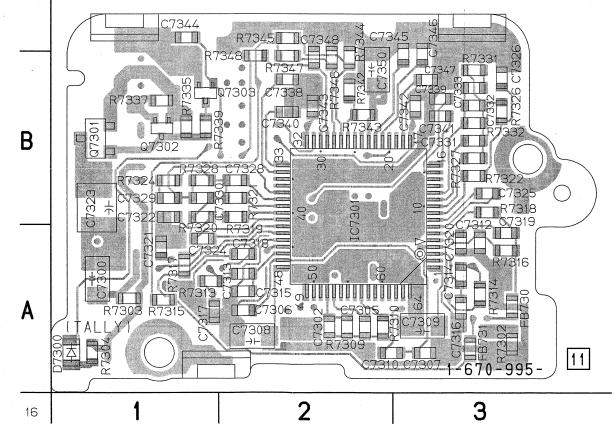
MA-333 (STEREO MIC AMP) PRINTED WIRING BOARD

- Ref. No. MA-333 Board; 10,000 Series -

MA-333 BOARD(SIDE A)



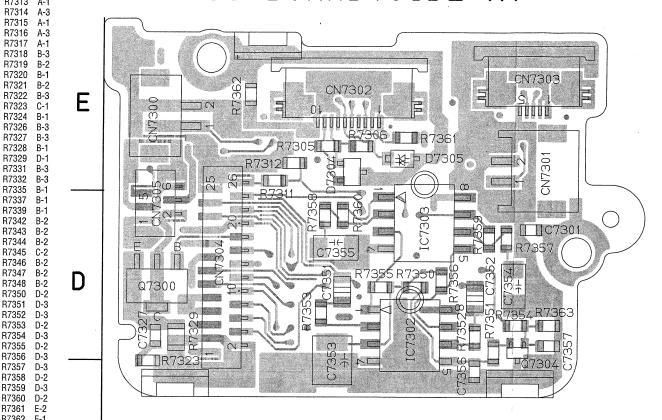
MA-333 BOARD (SIDE B)



MA-333 (STEREO MIC AMP) PRINTED WIRING BOARD

- Ref. No. MA-333 Board; 10,000 Series -

MA-333 BOARD(SIDE A)



or printed wiring boards

C7347

C7321 C7322 C7323 C7324 C7325 C7326 C7327 C7328 C7330 C7331 C7333 C7336 C7336 C7337 C7338 C7339 C7340 C7341 C7342 C7344 C7344 C7344

This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram. Chip parts

MA-333 BOARD

C7348 B-2

C7350 B-2

C7350 B-2 C7351 D-2 C7352 D-3 C7353 D-2 C7354 D-3 C7355 D-2 C7356 C-3 C7357 D-3

CN7300 E-1 CN7301 E-3

CN7302 E-2

CN7303 E-3 CN7304 D-1 CN7305 D-1

D7300 A-1 D7304 E-2 D7305 E-2

FB730 A-3

FB731 A-3

IC7301 B-2 IC7302 D-2 IC7303 D-2

Q7300 D-1 Q7301 B-1 Q7302 B-1 Q7303 B-1

Q7304 D-3 R7302 A-3

R7303 A-1 R7304 A-1

R7304 A-1 R7305 E-2 R7306 E-2 R7309 A-2 R7310 A-2 R7311 E-2

R7312 E-2

R7313 A-1

R7313 A-1 R7314 A-3 R7315 A-1 R7316 A-3 R7317 A-1 R7318 B-3 R7319 B-2

R7326 B-3

R7327 B-3 R7328 B-1 R7329 D-1 R7331 B-3

R7332 B-3 R7335 B-1 R7337 B-1 R7339 B-1 R7342 B-2

R7342 B-2 R7343 B-2 R7344 B-2 R7345 C-2 R7346 B-2 R7347 B-2

R7347 B-2 R7348 B-2 R7350 D-2 R7351 D-3 R7352 D-3 R7353 D-2 R7354 D-3

R7353 D-2 R7354 D-3 R7355 D-2 R7356 D-3 R7357 D-3 R7358 D-2 R7359 D-3 R7360 D-2 R7361 E-2 R7362 E-1 R7363 D-3

C7300 A-1
C7301 D-3
C7302 A-2
C7305 A-2
C7306 A-2
C7307 A-3
C7308 A-2
C7309 A-3
C7310 A-2
C7312 A-3
C7315 A-2
C7315 A-2
C7316 A-1
C7318 A-2
C7318 A-2
C7319 A-3
C7320 A-3
C7320 A-3
C7320 B-1

B-1

B-3 B-3 D-1 B-2

B-1 B-3 B-3 B-3 B-3 B-2 B-3 B-2 B-3

B-3 B-2 C-1 C-3 C-3

B-3

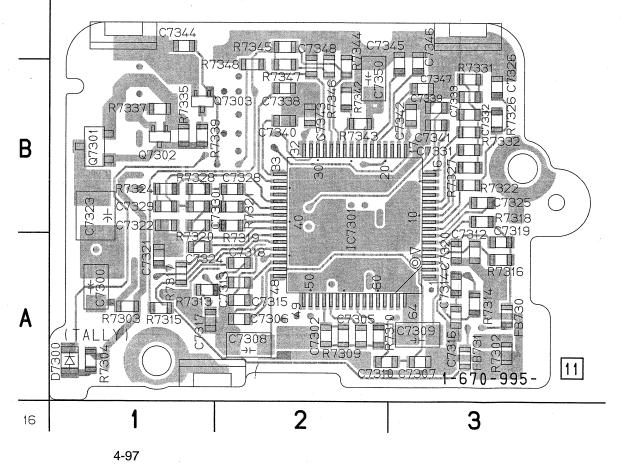
TER

Transistor



There are few cases that the part printed on this diagram isn't mounted in this model.

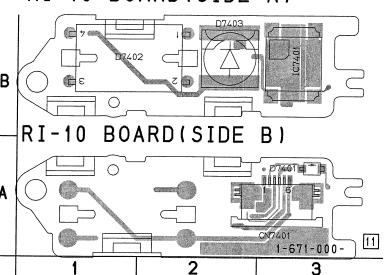
MA-333 BOARD (SIDE B)



RI-10 (SIRCS RECEIVER) PRINTED WIRING BOARD

- Ref. No. RI-10 Board; 10,000 Series -

RI-10 BOARD(SIDE A)

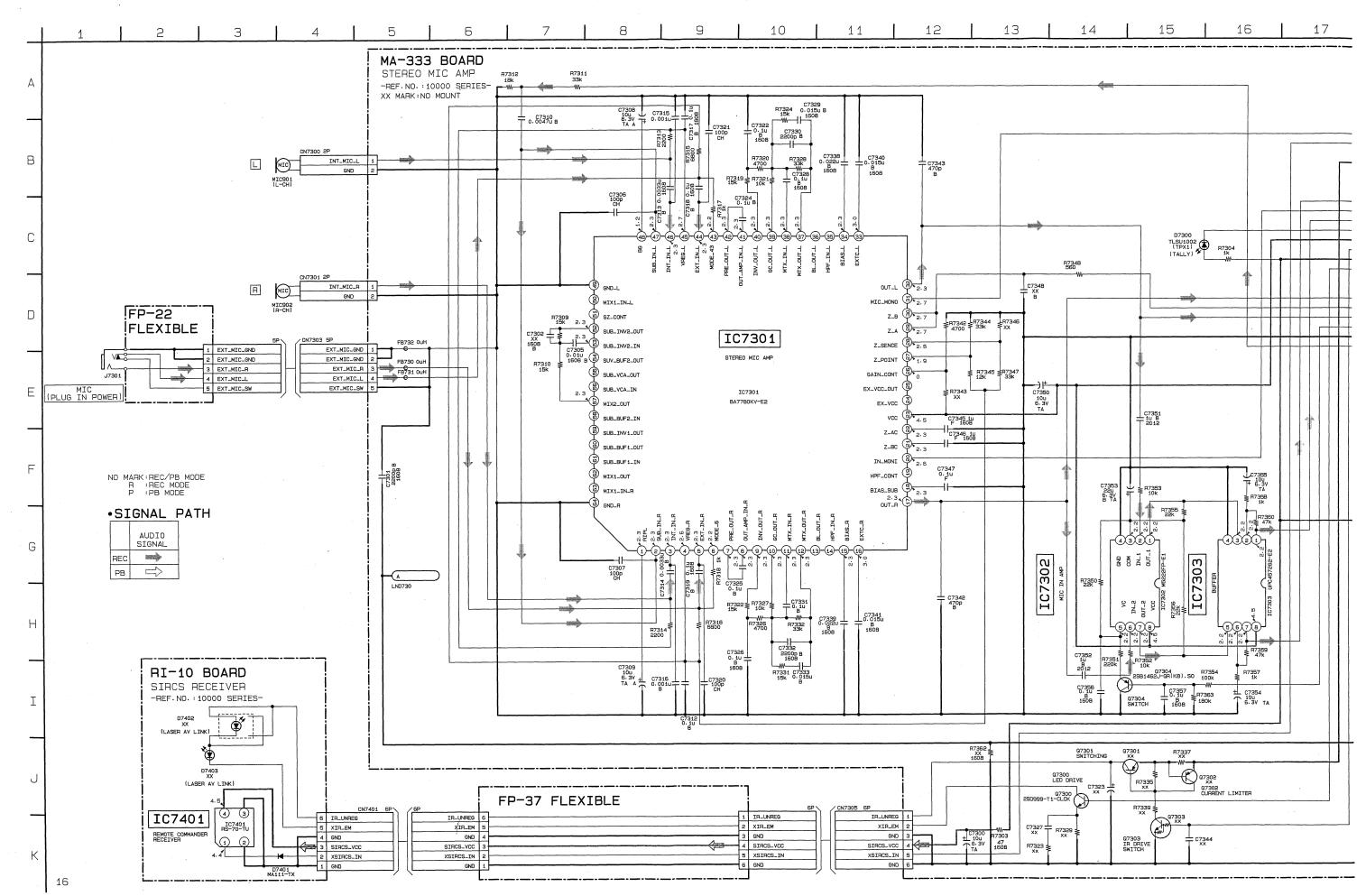


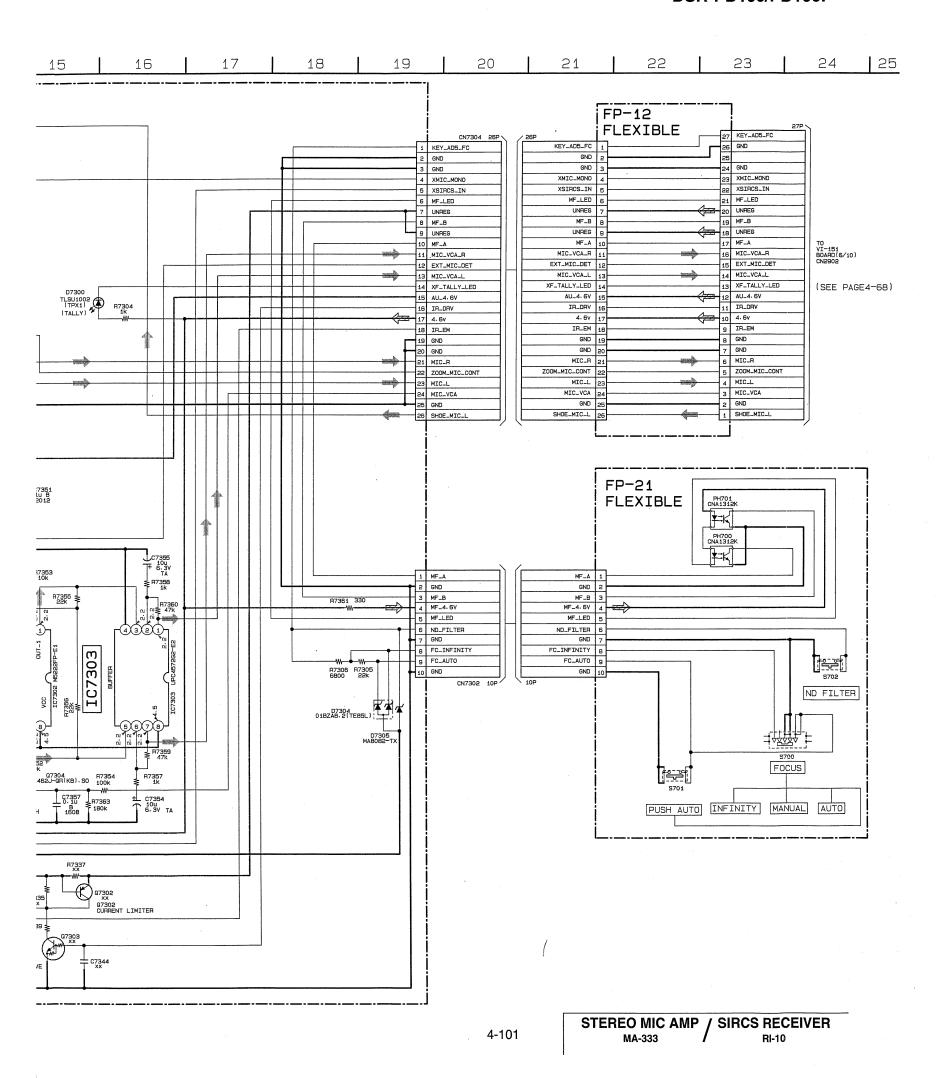
RI-10 BOARD

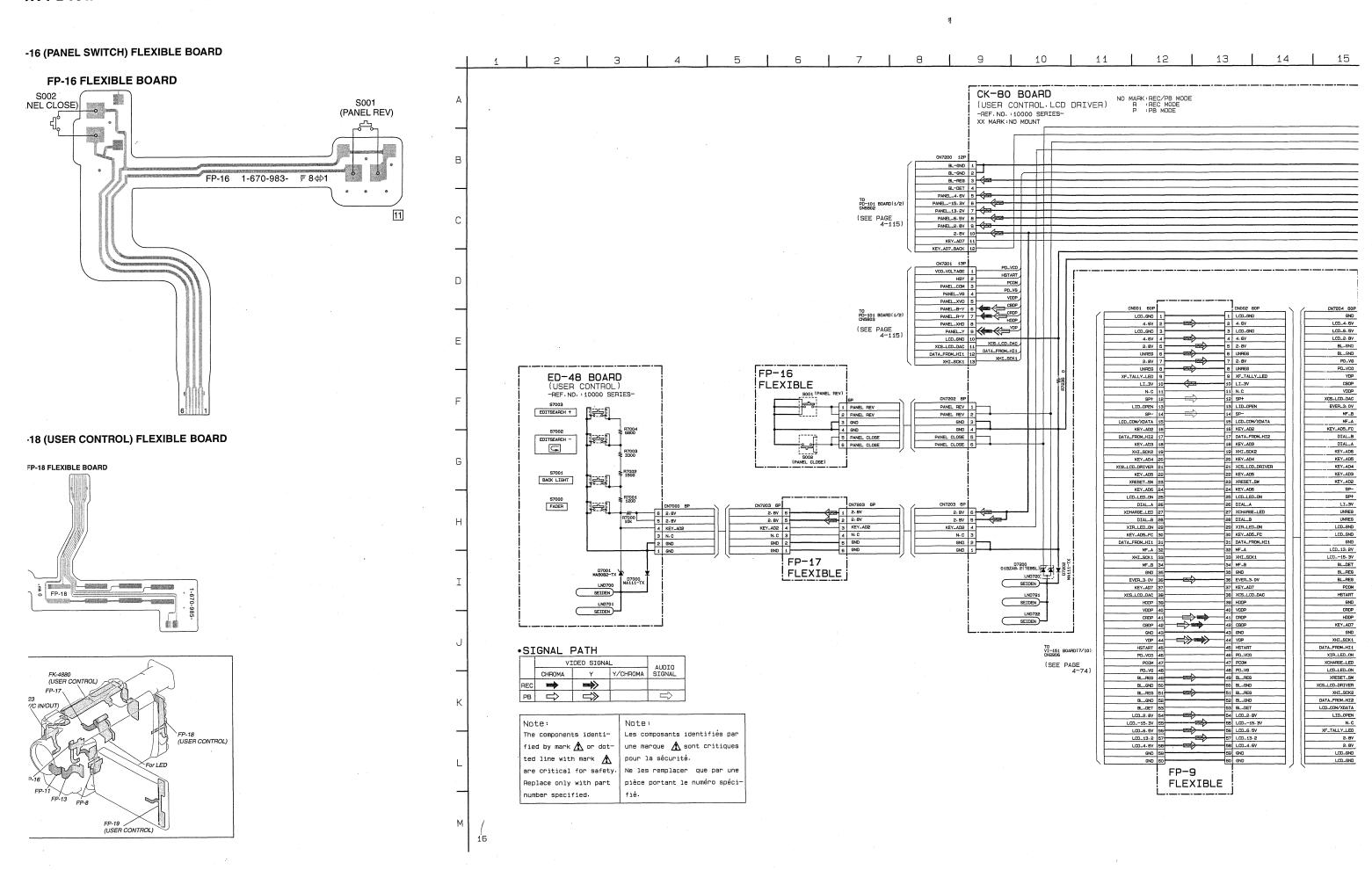
CN7401 A-3

D7401 A-3 D7402 B-1 D7403 B-2

IC7401 B-3







SER CONTROL 80, ED-48, FP-16, FP-18

15 | 16 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 13 | 14 | 17 | 18 | 19 **|** 27 28 | 29 | 30 | 31 | RK:REC/PB MODE :REC MODE :PB MODE AUTO LOCK AUTO LOCK MANUAL HOLD S7203 MEMORY S7206 MEMORY INDEX S7209 MEMORY DELETE ₩ R7229 R7210 1200 H7215 1500 R7219 3300 R7222 6800 R7224 22k R7225 22k R7200 FP-18 FLEXIBLE F7230 6800 R7205 10k CN7210 BP WHT BAL SHUTTER S7212 DATA CODE S7211 MEMORY PLAY TLSU1002(TPX1+SON R7202 10k S7201 END SEARCH X3S_LED X3S_LED ! 5 3S_LED_2.8V 35_LED_2-8V . ₹ 87232 1500 6 EXPOSURE EXPOSURE R7233 1200 GND : R7211 1200 R7216 1500 R7220 3300 SFL/ PUSH EXEC S102 PROGRAM AE S101 WHT BAL S100 SHUTTER SPEED R7228 10k S7210 ZEBRA D7207 01BZAB-2(TE85L) S7205 S720B 0FF ← 70% → 100% CN7211 68P 6ND 68 6ND C02 67 D10 66 09 D8 64 8V01 63 8V02 62 REG 61 REG PICTURE EFFECT CN7204 60P S7202 TITLE DIGITAL EFFECT 97223 22k GND 60 LCD_4.6V 58 LCD_6.5V 56 2D_GND 1 4.6V 2 2D_GND 3 4.6V 4 R7221 6800 1 LCD_GND O 68 2 4.6V 3 LCD_GND R7217 1500 R7212 1200 R7203 10k 00 LCD_2.8V 5-4 4.6V S7213 RESET BL_GND 52 2.8V 5 5 2. BV BL_GND 50 PD_VG 48 PD_VC0 46 UNREG 6 6 UNREG 7 2.8V 00 PD_VC0 UNREG 8 -Y_LED 9 -LI_3V 10 -B UNREG 00 9 XF_TALLY_LED 10 LI_3V | INTRODE COP | SOLUTION | Soluti REG 51
RFU 60
WAIT 59
RESET 56
VS2 57
A25 56
GND 00 COM2 SEG2 SEG3 N- C 11 11 N.C SP+ 12)_OPEN 13 SP- 14 00 SEG4 SEG5 SEG6 14 SP-7 SEG4 8 SEG5 00 SEIDEN
LND723
SEIDEN
LND724
SEIDEN
LND725 'XDATA 15 IY_AD2 16 IM_HI2 17 A28 65 GNO

A23 64 GNO

A22 63

YPPE 52 YCC

A21 60 GNO

A22 63 GNO

A24 60 GNO

A25 63 GNO

A26 67 GNO

A27 60 GNO

A27 60 GNO

A28 67 GNO

A29 67 GNO

A29 67 GNO

A21 60 GNO

A21 60 GNO

A22 62 GNO

A23 62 GNO

A24 67 GNO

A25 67 GNO

A26 67 GNO

A27 67 GNO

A27 67 GNO

A28 67 GNO

A28 67 GNO

A29 67 GNO

A30 67 GNO

A31 67 GNO

A31 67 GNO

A32 67 GNO

A33 67 GNO

A41 28 GNO

A41 28 A2 A5

A4 A2 A5

A4 A5 24 A5

A5 23 A7

A2 A2 A5

A5 23 A7

A2 A5 A5

A5 23 A7

A2 A5 A5

A5 23 A7

A2 A5 A5

A5 A5 A5

A5 BON

A61 29 GNO

A61 31 GNO

A61 19 15 LCD_COM/XDATA 16 KEY_AD2 17 DATA_FROM_HI2 9 SEGS 10 SEG7 11 SEGS 12 SEG9 00 SEG7 SEGB SEG9 \boxtimes DIAL_B 28 Y_AD3 18 _SCK2 19 Y_AD4 20 RIVER 21 18 KEY_AD3 19 XHI_SCK2 20 KEY_AD4 DIAL_A 26 07206 01BZAB. 2(TE85L) 00 KEY_AD6 24 KEY_AD5 22 KEY_AD5 22

KEY_AD4 20

KEY_AD3 18

KEY_AD2 16

SP- 14

SPH 12

LI_3V 10

UNREG 8 SEG10 3 SEG10 SEG11 SEG12 14 SEG11 15 SEG12 16 SEG13 17 SEG14 18 SEG1 21 XCS_LCD_DRIVER 21 KCS_LCD_DRIVER
22 KEY_AD5
23 XRESET_SM
24 KEY_AD5
25 LCD_LED_ON
26 DIAL_A
27 XCHARGE_LED
28 DIAL_B
29 XIR_LED_ON
30 KEY_AD5_FC
31 DATA_FROM_HI1 Y_AD5 22 ET_SW 23 Y_AD6 24 ED_ON 25 ITAL_A 26 E_LED 27 00 SEG13 SEG14 SEG1 SEG16 00 BT7200 ATCHARGEABLE 19 SEG16 20 SEG15 00 SEG15 COM3 COM4 TTT + 1 | | D7204 01BZAB- 2(TEB5L) UNREG 8 21 COM3 22 COM4 IAL_B 26 V/L RICH 00 ED_ON 29 D5_FC 30 M_HI1 31 LCD_GND 4 GND 5 31 DATA_FROM_H:
32 MF_A
33 MHI_SCK1
34 MF_B
35 GND
35 EVER_3.0V
37 KEY_AD7
38 KSS_LCD_DAC
39 HDDP
40 VDDP
41 CRDP
42 CRDP LCD_13.2V 57 OO SLOT CN7205 2P TO FP-13 FLEXIBLE BL_DET 5 2 SP-1 SP+ BL_REG 51 (SEE PAGE 4-46) 97201 25B1122-ST-TD 07200,7201 LCD +B SWITCH 00 7.6 8.1 7.6 R7206 ≢ HSTART 45 00 | D-VCD | 40 | CBDP | 42 | CBDP | 42 | CBDP | 44 | CBDP | 44 | CBDP | 44 | CBDP | 45 | CBDP | 46 | CBDP | 46 | CBDP | 47 | CBDP | 46 | CBDP | 47 | CBDP | 48 | CBD GND 43 CRDP 41 ₹ R7213 LCD_LED_ON 00 SEG16 SEG16 SEG13 SEG13 SEG11 R7204 10k HDDP 39 KEY_AD7 37 GND 35 XHI_SCK1 33 00 4 4 4 4 4 42 CBDP
43 GND
44 YDP
45 HSTART
46 PD_VCO
47 PCOM
48 PD_VG
49 BL_REG
50 BL_GND R7214 4700 R7207 **₩** XHI_SCK1 00 DATA..FROM_HI1 DATA_FROM_HI1 3: XIR_LED_ON 25 SEG18 SEG17 SEG15 SEG14 SEG14 SEG12 SEG12 00 XCHARGE_LED 27 ¥^{D7209} LCD_LED_ON | P7208 | P720 LCD_LED_ON 2 00 IL_REG 49-IL_GND 50 IL_REG 51-XRESET_SW XCS_LCD_DRIVER SEG10 0720B XX SEG9 CO 1.4
SEG8 CO 1.4
SEG6 CO 1.4 00 XHI_SCK2 SEGB SEG7 SEG6 SEG5 SEG4 SEG3 51 BL_REG 52 BL_GND XHI_SCK2 1 IC7200 L_DET 53
L_2.8V 54
-15.3V 55
L_6.5V 56
-1.13.2 57
L_4.6V 58
GND 59
GND 60 DATA_FROM_HI2 DATA_FROM_HI2 00 52 BL_GRU

53 BL_DET

54 LCD_2. BV

55 LCD_-15. 3V

56 LCD_6. 5V

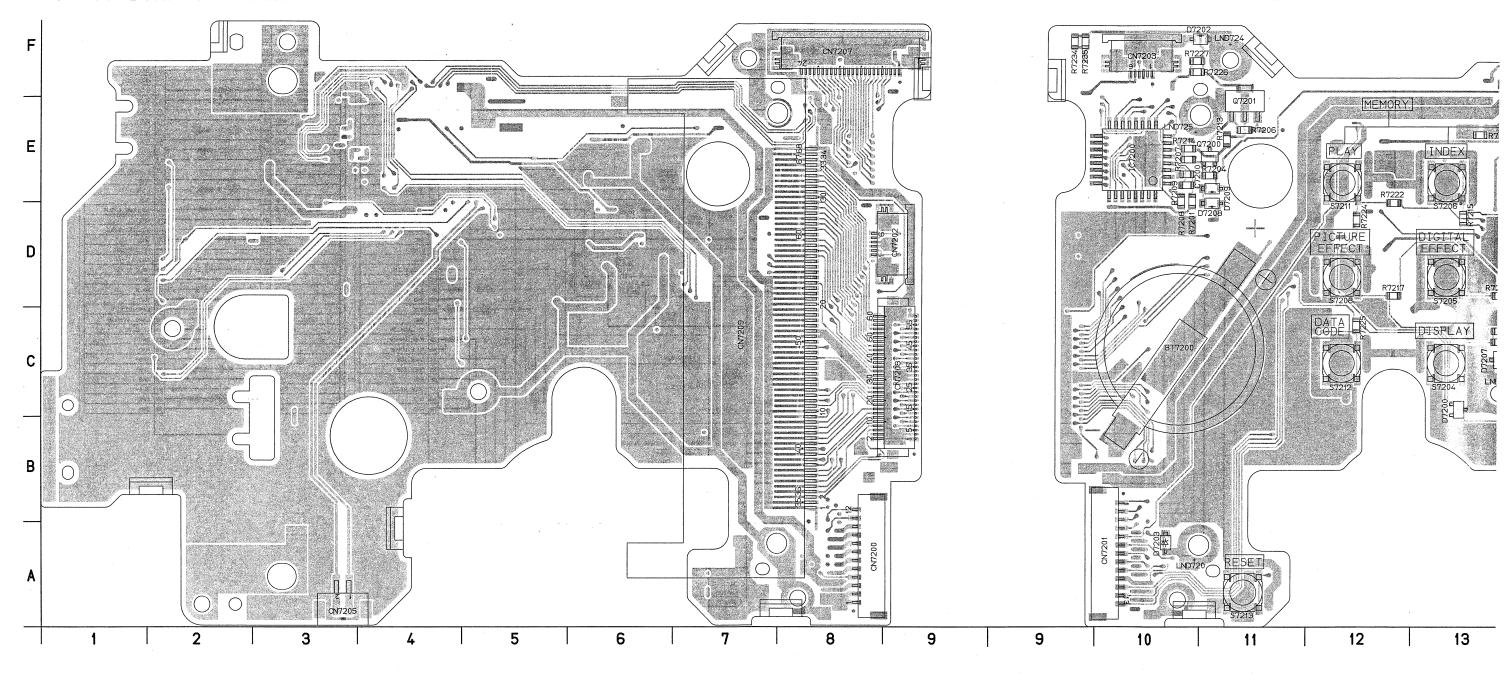
57 LCD_13. 2

58 LCD_4. 6V LCD_COM/XDATA LCD DAIVER LID_OPEN 1 IC7200 BU9729K-E2 XHI_SCK2 DATA_FROM_HI2 N-C XF_TALLY_LED 9
2.8V 7
2.8V 5 00 XCS C/XD COM1 COM2 COM3 COM4 SEG1 SEG2 A11 10 OE
OE 9 A10
CE1 7 FP-9 00 FLEXIBLE COM/XDATA
COM1 0
COM2 1.4
COM3 1.4
COM3 1.4
COM4 1.4
SEG1 1.4 00 00

CK-80 (USER CONTROL) PRINTED WIRING BOARD — Ref. No. CK-80 Board; 10,000 Series —

CK-80 BOARD(SIDE A)

CK-80 BOARD(SIDE B)



4-107

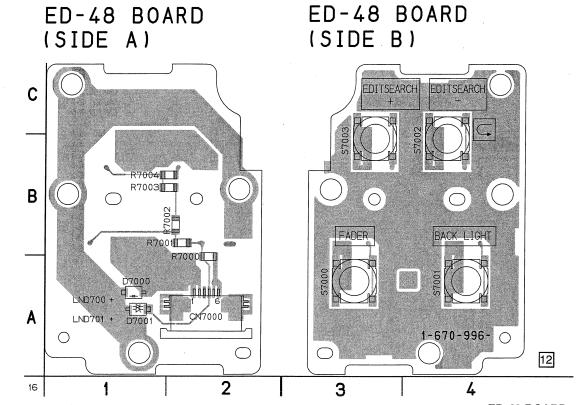
B) UND723 CN7204 AUTO [∐]R7236 INDEX DELETE HOLD PICTURE EFFECT SEL/PUSE EXEC DISPLAY [∐]R7216 END SEARCH **∢** □ □ ANTI GROUND SHOOTING 5SEC 12 1-670-998-12 13 14 15 16 17 18

CK-80 BOARD

| CK-80 BOA | RD | |
|---|---|--|
| BT7200 C-10 C7200 E-10 C7200 E-10 C7200 A-8 CN7201 A-10 CN7202 D-9 CN7203 F-10 CN7205 A-3 CN7207 F-8 CN7207 F-8 CN7208 C-9 CN7201 D-17 D7200 C-13 D7201 D-16 D7202 F-10 D7203 A-10 D7203 A-10 D7204 E-15 D7206 D-16 D7207 C-13 D7208 E-11 D7207 C-13 D7208 E-11 D7201 C-16 D7212 C-16 D7214 D-16 D7215 D-16 D7214 D-16 D7215 D-16 D7216 E-10 D7200 E-11 D7200 E-11 D7200 E-11 D7201 E-11 R7200 D-16 R7201 E-10 R7201 E-10 R7201 E-10 R7202 C-14 R7203 D-16 R7203 D-16 R7204 E-11 R7205 D-16 R7206 E-11 R7207 E-10 R7208 E-10 R7208 E-11 R7207 E-10 R7208 E-10 R7208 E-11 R7207 E-10 R7208 E-10 R7208 E-10 R7208 E-10 R7208 E-10 R7209 E-10 R7209 E-10 R7209 E-10 R7209 E-10 R7201 E-15 R7211 C-13 R7211 C-13 | R7213 R7214 R7215 R7216 R7217 R7218 R7219 R7220 R7221 R7222 R7223 R7224 R7225 R7226 R7227 R7228 R7229 R7230 R7231 R7232 R7233 R7233 R7235 R7236 S7200 S7201 S7202 S7203 S7204 S7205 S7207 S7206 S7207 S7208 S7207 S7208 S7210 S7211 S7212 S7213 S7214 S7215 S7210 S7211 S7212 S7213 S7211 S7212 S7219 | E-1 E-10-1 C-1-1 B-10-1 B- |

ED-48 (USER CONTROL) PRINTED WIRING BOARD

- Ref. No. ED-48 Board; 10,000 Series -



ED-48 BOARD

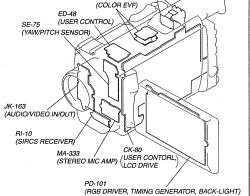
CN7000 A-2 D7000 A-1 D7001 A-1

R7000 A-2 R7001 B-2 R7002 B-2 R7003 B-2 R7004 B-2

S7000 A-3

S7001 A-4 S7002 B-4 S7003 B-3

the diagram. ED-48

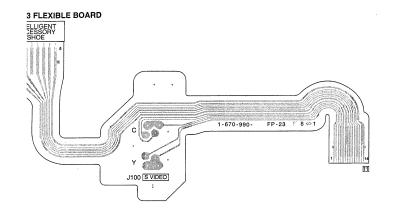


For printed wiring boards

• This board is six-layer print board. However, the patterns of layers two to five have not been included in

There are few cases that the part printed on this diagram isn't mounted in this model.

23 (S VIDEO) FLEXIBLE BOARD



JK-163 BOARD

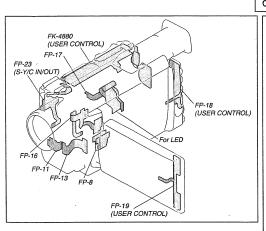
| 7100 7101 7102 7103 7104 | C-4 D-4 C-5 D-4 C-1 | FB715 FB716 FB717 FB718 | C- C- C- |
|--------------------------------------|---------------------------------|---|----------------------|
| N7100 N7101 N7102 | B-2 C-1 | J7100 J7101 J7102 | C- C- D- |
| 7100 7102 7103 7104 7105 | B-4 B-1 C-5 D-5 C-5 | L7100 L7101 L7102 L7103 L7104 | C- C- D- C- |
| B710 | C-5 B-4 | R7102 VDR711 | C- |
| B711 B712 B713 B714 | C-4 B-1 D-1 C-1 | VDR714 VDR715 VDR717 VDR718 | B- D- |

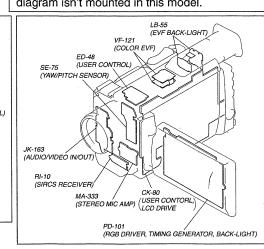
For printed wiring boards

- This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.
- Chip parts



There are few cases that the part printed on this diagram isn't mounted in this model.





JK-163 (AUDIO/VIDEO IN/OUT) PRINTED WIRING BOARD — Ref. No. JK-163 Board; 10,000 Series — JK-163 BOARD JK-163 BOARD (SIDE B) (SIDE A) AUDIO/VIDEO O J7102 O (ID-2) D HEADPHONE LANC 0 LND710 FB717 00 В DV IN/OUT Α 1-670-997-12 2 3 5 16

2

С

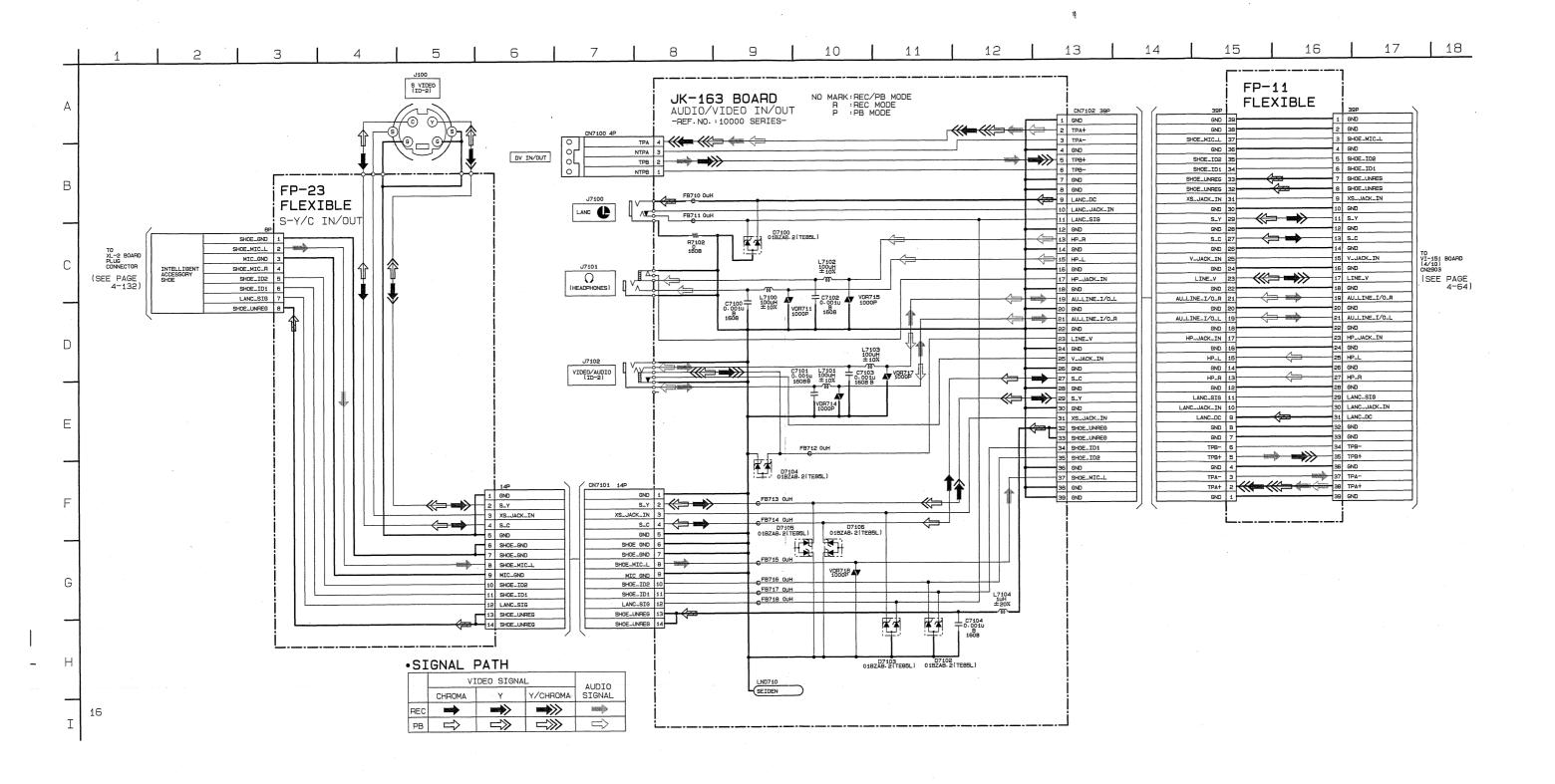
(SEE PAGE 4-132)

16

SHOE_MIC_L MIC_GND

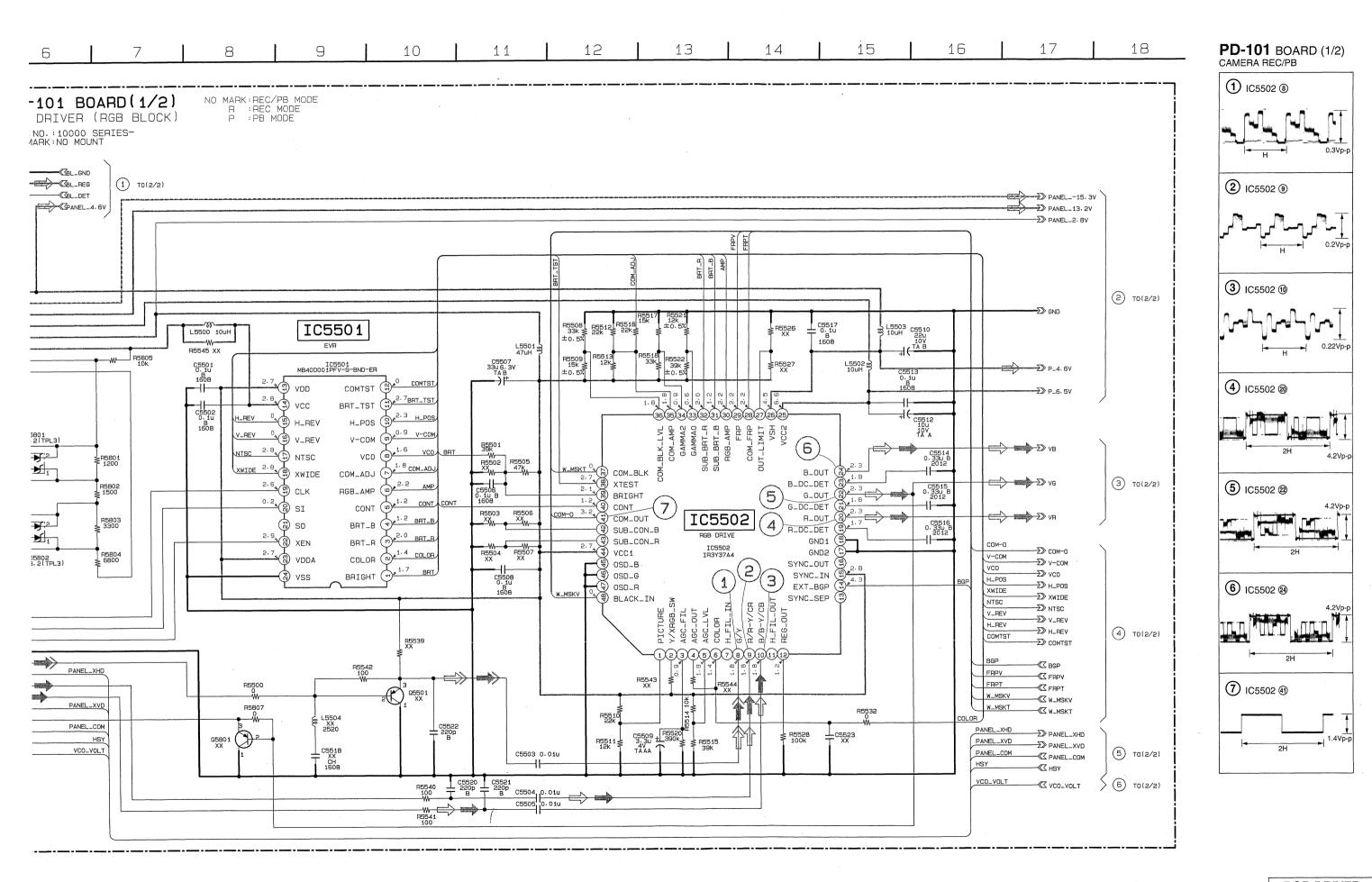
SHOE_MIC_R

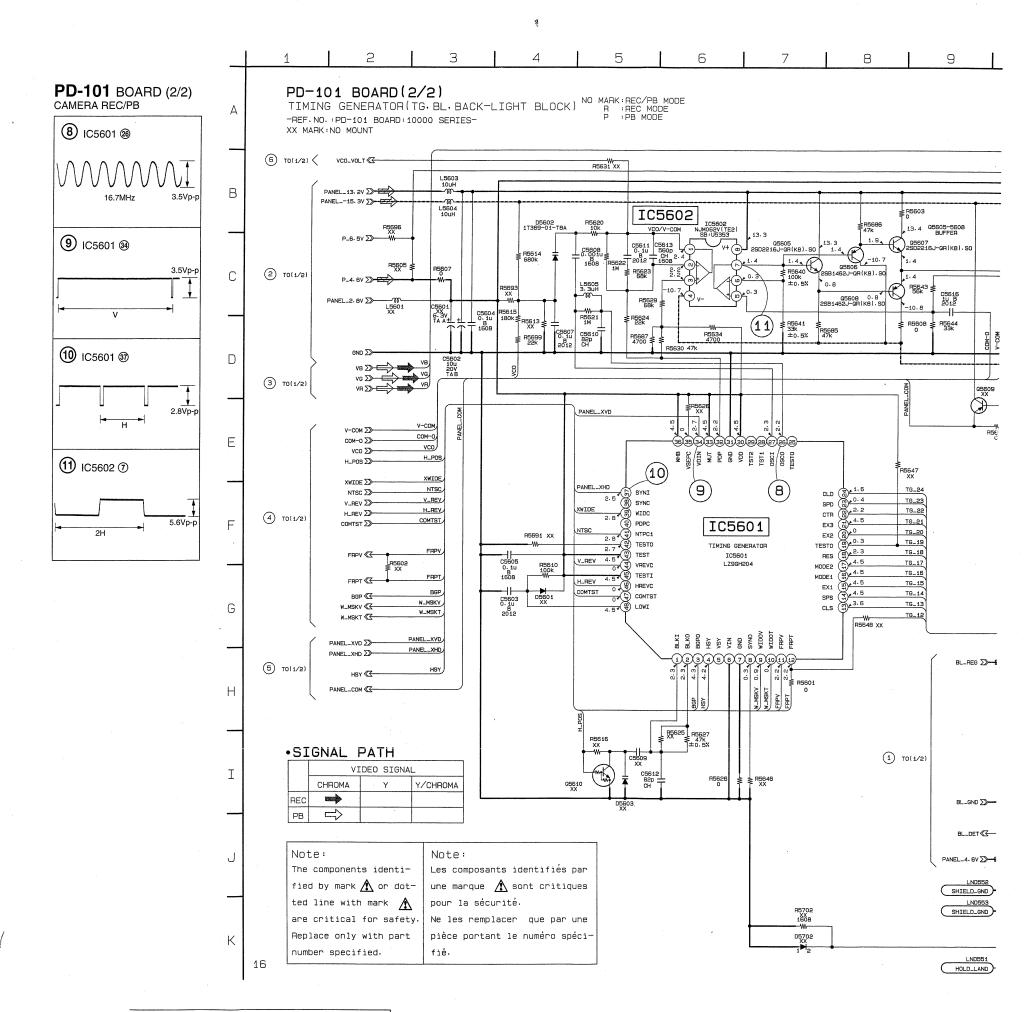
SHOE_ID2 5
SHOE_ID1 6
LANC_SIG 7
SHOE_UNREG 8

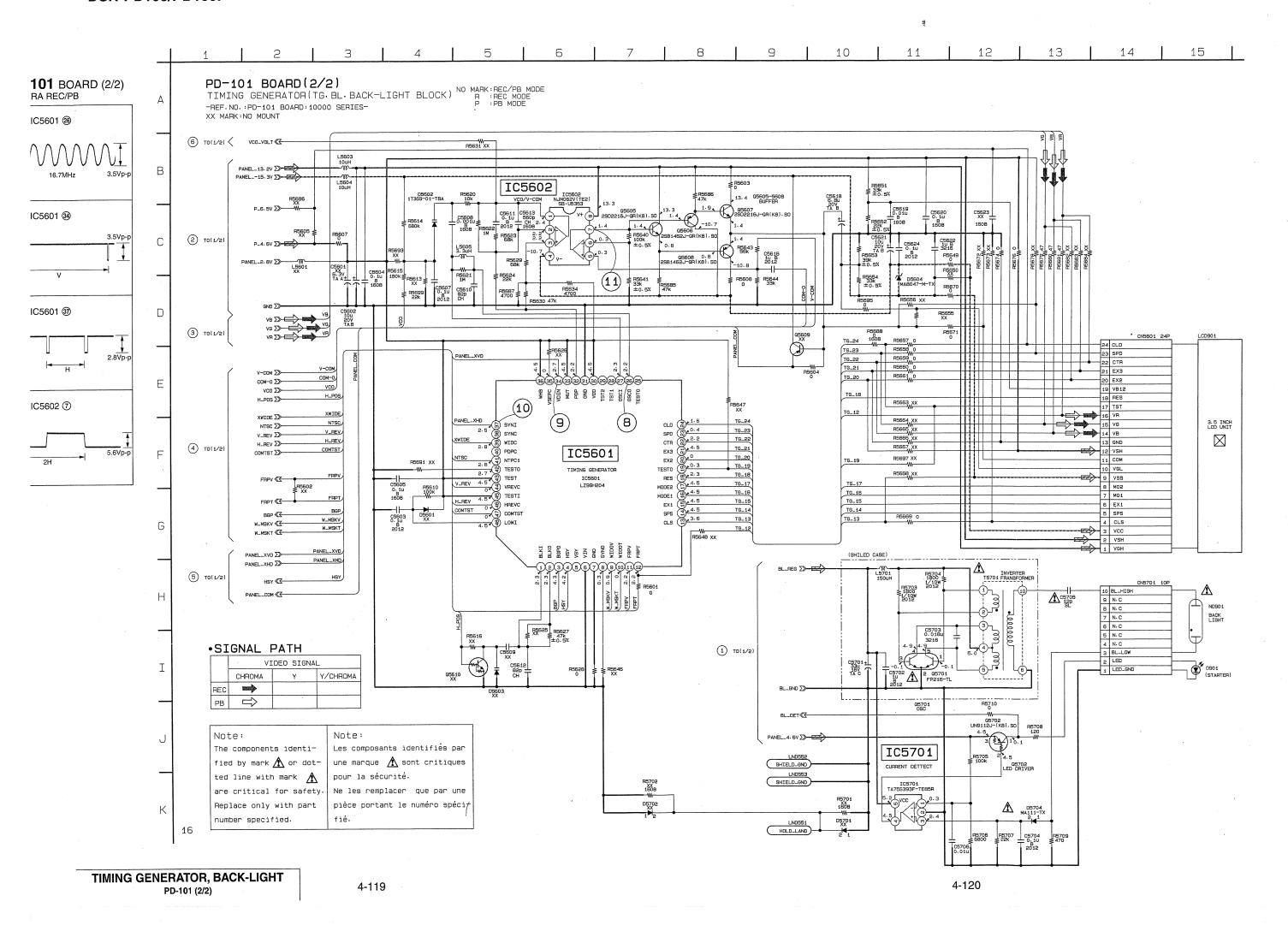


4-114

For schematic diagram • Refer to page 4-121 for PD-101 printed wiring board. Refer to page 4-121 for FP-19 flexible board. 3 5 4 6 8 9 10 11 12 13 14 PD-101 BOARD(1/2) NO MARK: REC/PB MODE R : REC MODE P : PB MODE Д :REC MODE RGB DRIVER (RGB BLOCK) -REF.NO.:10000 SERIES-XX MARK:NO MOUNT SBL_GND ₩ CBL_REG 1 TO(2/2) -≪3BL_DET В PANEL_4. 6V BL_GND BL_GND BL_REG BL_DET TO CK-80 BOARD PANEL_4.6V PANEL_-15.3V (SEE PAGE4-103) PANEL_13, 2V PANEL_6.5V L5500 10uH IC5501 R5526 XX PANEL_2, 8V 2.87 R5545 XX FP-19 FLEXIBLE ___ R5805 10k KEY_AD7 R5509 15k ≱ ±0.5% IC5501 MB40D001PFV-G-BND-ER -REF. NO. : 10000 SERIES-KEY_AD7_BACK \square VDD COMTST LCD BAIGHT 2. 7_{BRT_TS} VCC BRT_TST H_POS S502 D5801 01ZA8.2(TPL3) V-COM LCD BRIGHT 2.8 T (6)NTSC VCO XMIDE 5.8 (m) XMIDE 6 KEY_AD7 KEY_AD7 6 2.7 B XTEST Ē COM_ADJ B_OUT KEY_AD7_S1 KEY_AD7_S1 4 GND (A) CLK 2.1 BRIGHT B_DC_DET GND RGB_AMP G_OUT 1.2 CONT GND GND 0.2 CONT (4) CONT G_DC_DET 20M-0 3.2 COM_OUT KEY_AD7_S2 KEY_AD7_S2 R5503 R5506 R5803 IC5502 R_OUT (i) so KEY_AD7_S3 KEY_AD7_S3 1 BRT_B ♥ 3 SUB_CON_B R_DC_DET !. ≥∫₁ GND1 (B)
GND2 (C)
SYNC_OUT (B)
SYNC_IN (B)
EXT_BGP (C)
SYNC_SEP (B) RGB DRIVE VOLUME + SUB_CON_R M-H5504 XX 1.4 COLOR D5802 D1ZAB. 2(TPL3) IR3Y37A4 COLOR F OSD_B OSD_G OSD_R OSD_R BLACK_IN BRIGHT (-) VSS S500 VOLUME -XHI_SCK1 DATA_FROM_HI1 XCS_LCD_DAC R5539 XX GND G PANEL_Y R5542 100 PANEL_XHD TO CK-80 BOARD PANEL_XHD \Rightarrow R5543 XX PANEL_R-Y 2 Q5501 XX PANEL_B-Y (SEE PAGE4-103) PANEL_XVD PANEL_XVD L5504 XX 2520 PANEL_VG R5510 PANEL_COM PANEL COM Q5801 2 HSY R5528 100k 十^{C5523} Н VCO_VOLT C551B XX CH 1608 VCO_VOLT C5503 0.01u •SIGNAL PATH CN5803 13P C5520 C5521 2200 B C5504 B C5505 0.01u VIDEO SIGNAL CHROMA Y/CHROMA REC 16 PB \Rightarrow \Rightarrow Ι



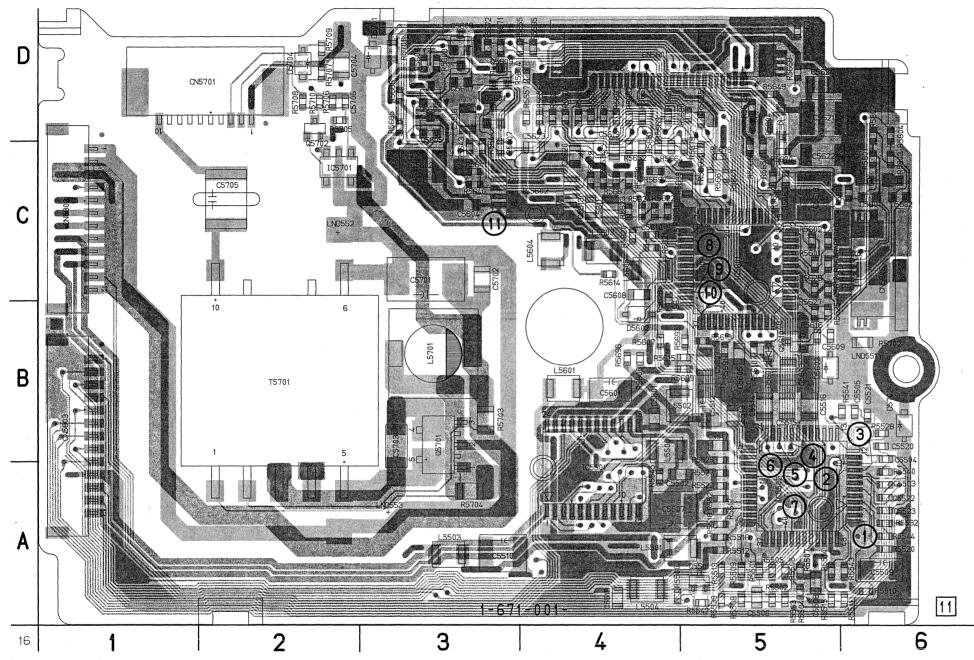




PD-101 (RGB DRIVER, TIMING GENERATOR, BACK-LIGHT) PRINTED WIRING BOARD

- Ref. No. PD-101 Board; 10,000 Series -

PD-101 BOARD (SIDE A)

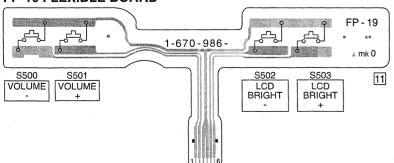


PD-101 BOARD

| C5501 | B-4 | C5706 D-2 | R5501 | A-5 | R5623 | C-4 | | R5682 | D. |
|----------------|------------|--------------|----------------|------------|----------------|------------|-----|-------|----|
| C5502 | A-4 | | R5502 | A-5 | R5624 | C-4 | | R5683 | D. |
| C5503 | A-6 | CN5601 D-4 | R5503 | A-5 | R5625 | B-5 | | R5684 | D- |
| C5504 | B-6 | CN5701 D-2 | R5504 | | R5626 | C-4 | | R5685 | D- |
| C5505 | B-6 | CN5802 C-1 | R5505 | | R5627 | B-5 | | R5686 | D. |
| C5506 | A-5 | CN5803 B-1 | R5506 | | R5628 | C-5 | | R5687 | C- |
| C5507 | A-4 | CN5805 C-6 | R5507 | | R5629 | C-4 | | R5688 | Č- |
| C5508 | A-5 | 01100000 0 0 | R5508 | | R5630 | C-4 | | R5691 | B- |
| C5509 | A-6 | D5601 B-5 | R5509 | | R5631 | C-4 | | R5693 | B- |
| C5510 | A-3 | D5602 B-4 | R5510 | | R5634 | C-4 | - 1 | R5695 | D. |
| 25512 | B-5 | D5603 B-5 | R5511 | | R5640 | C-3 | | R5696 | B- |
| | B-5 B-5 | | R5512 | | R5641 | C-3 | | R5697 | C- |
| C5513 C5514 | | | | | | C-3 | | R5699 | B- |
| | B-5 | D5701 D-3 | R5513 | | R5643 | | 1 | | D- |
| 25515 | B-5 | D5702 B-6 | R5514 | | R5644 | C-3 | | R5701 | |
| 25516 | B-5 | D5704 D-2 | R5515 | | R5646 | C-5 | | R5702 | B- |
| 25517 | B-5 | D5801 C-6 | R5516 | | R5647 | C-5 | | R5703 | B- |
| 25518 | A-4 | D5802 C-6 | R5517 | | R5648 | C-5 | . | R5704 | A- |
| 25520 | B-6 | | R5518 | | R5649 | D-5 | l | R5705 | D- |
| 25521 | B-6 | IC5501 A-4 | R5520 | | R5650 | C-5 | | R5706 | D- |
| 25522 | A-6 | IC5502 A-5 | R5521 | A-5 | R5651 | C-4 | | R5707 | D- |
| 25523 | A-6 | IC5601 C-5 | R5522 | | R5652 | C-4 | - 1 | R5708 | D- |
| 25601 | B-4 | 1C5602 C-4 | R5526 | | R5653 | C-5 | | R5709 | D- |
| C5602 | C-3 | IC5701 C-2 | R5527 | A-5 | R5654 | C-5 | - 1 | R5710 | D- |
| C5603 | B-5 | | R5528 | B-6 | R5655 | D-3 | | R5801 | C- |
| 25604 | C-3 | L5500 B-4 | R5532 | A-6 | R5656 | D-4 | | R5802 | D- |
| 25605 | B-5 | L5501 A-4 | R5539 | A-5 | R5657 | D-4 | | R5803 | C- |
| 25607 | B-5 | L5502 B-4 | R5540 | A-6 | R5658 | D-4 | ŀ | R5804 | D- |
| 25608 | C-4 | L5503 A-3 | R5541 | B-6 | R5659 | D-4 | | R5805 | Ç- |
| 25609 | B-5 | L5504 A-4 | R5542 | A-5 | R5660 | D-4 | l | R5807 | C- |
| 25610 | C-4 | L5601 B-4 | R5543 | A-6 | R5661 | D-4 | | | |
| 25611 | C-4 | L5603 C-4 | R5544 | A-6 | R5663 | C-4 | - 1 | T5701 | B- |
| 5612 | C-5 | L5604 C-4 | R5545 | | R5664 | C-4 | | | |
| 25613 | C-4 | L5605 C-4 | R5601 | C-5 | R5665 | D-5 | - 1 | | |
| 25616 | D-3 | L5701 B-3 | R5602 | | R5666 | C-5 | - 1 | | |
| 25618 | C-5 | 20,0. | R5603 | | R5667 | C-5 | | | |
| 25619 | C-4 | Q5501 A-5 | R5604 | D-4 | R5668 | D-5 | | | |
| 55620 | C-4 | Q5605 D-3 | R5605 | B-4 | R5669 | C-5 | - 1 | | |
| 25621 | D-5 | Q5606 D-3 | R5607 | B-4 | R5670 | C-5 | | | |
| 55622 | C-5 | Q5607 D-3 | R5608 | D-3 | R5671 | D-3 | - 1 | | |
| 35623 | C-4 | Q5608 D-3 | R5610 | B-5 | R5672 | D-3 | | | |
| 5624 | D-5 | Q5609 D-3 | R5613 | B-5 | R5673 | D-5 | ſ | | |
| | C-3 | Q5610 B-5 | R5614 | C-4 | R5674 | D-5 | | | |
| 5701 | | | | | | C-5 | | | |
| 5702 | C-3 | Q5701 B-3 | R5615 | B-5 B-5 | R5676 R5678 | D-4 | | | |
| 5703 | B-3 | Q5702 D-2 | R5616 | | | C-5 | | | |
| 25704 | D-2 | Q5801 D-3 | R5620 | C-4 | R5679 | | 1 | | |
| 5705 | C-2 | R5500 A-4 | R5621 R5622 | C-4 C-4 | R5680 R5681 | D-5 D-4 | | | |
| | | 1 NOOUU A-4 | 1 80022 | U-4 | I boch i | D-4 | | | |

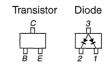
FP-19 (USER CONTROL) FLEXIBLE BOARD

FP-19 FLEXIBLE BOARD

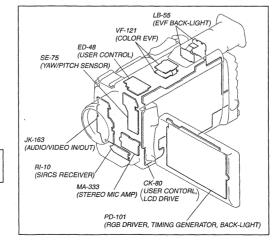


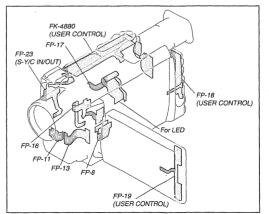
For printed wiring boards

- This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.
- Chip parts



There are few cases that the part printed on this diagram isn't mounted in this model.



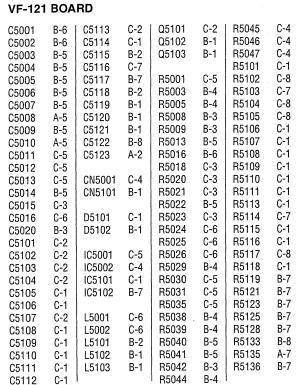


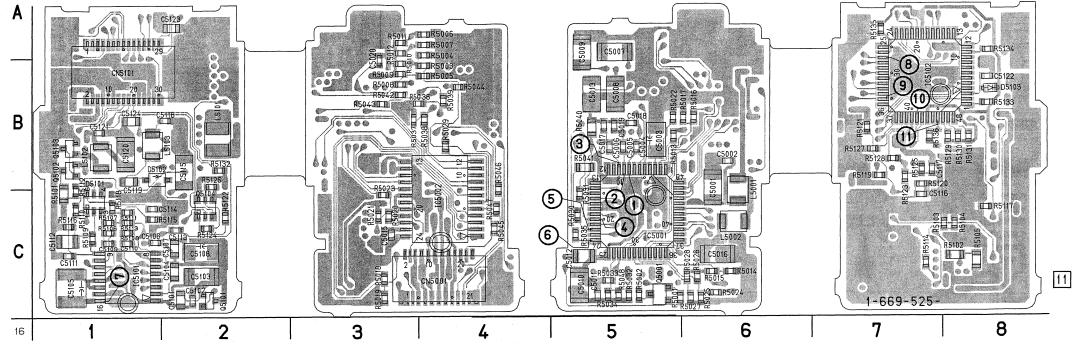
VF-121 (COLOR EVF) PRINTED WIRING BOARD

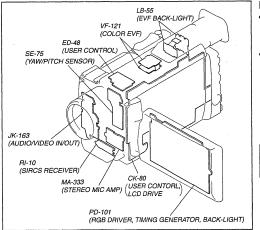
- Ref. No. VF-121 Board; 10,000 Series -

VF-121 BOARD (SIDE A)

VF-121 BOARD (SIDE B)





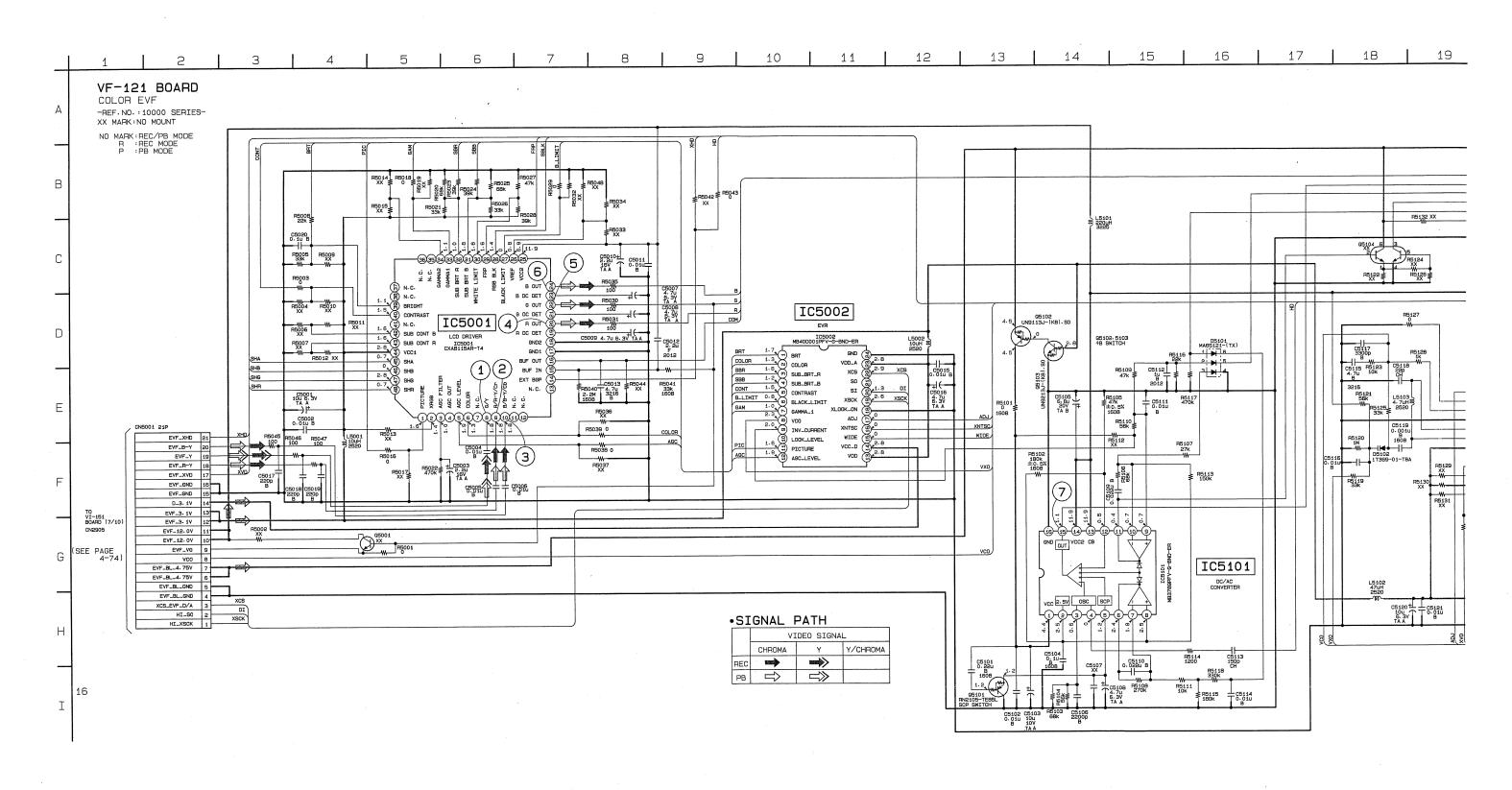


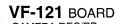
For printed wiring boards

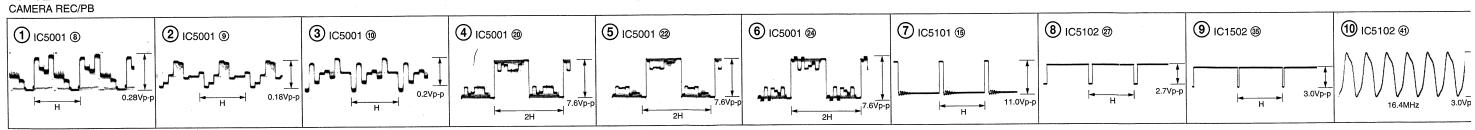
- This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.
- Chip parts

Transistor Diode C 654 654 54 123 123

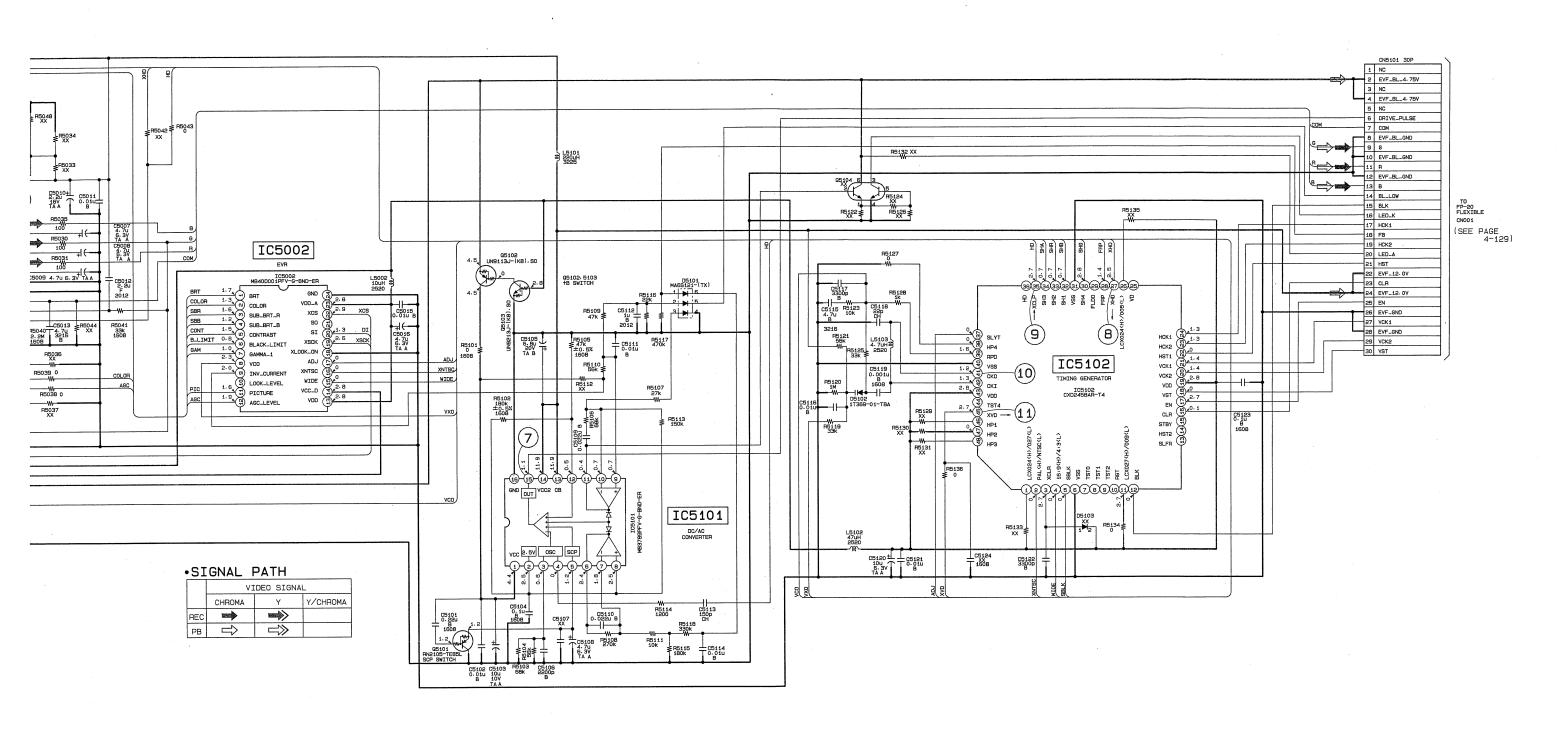
There are few cases that the part printed on this diagram isn't mounted in this model.

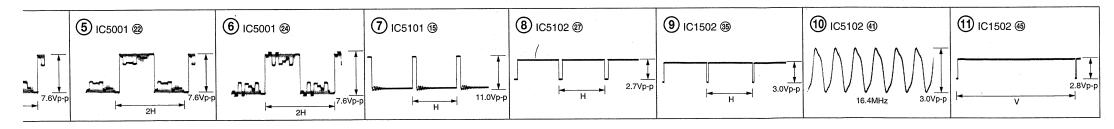


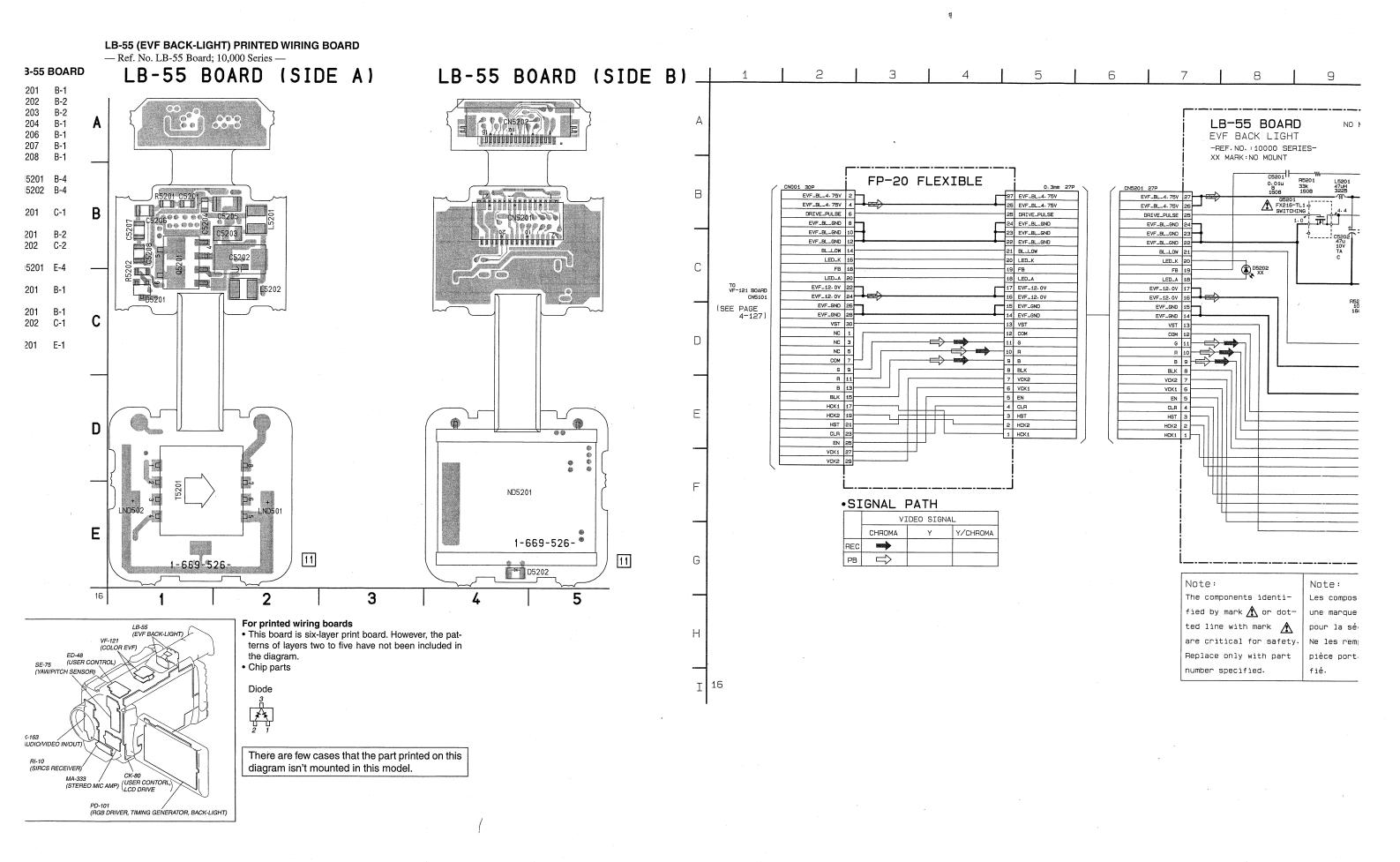


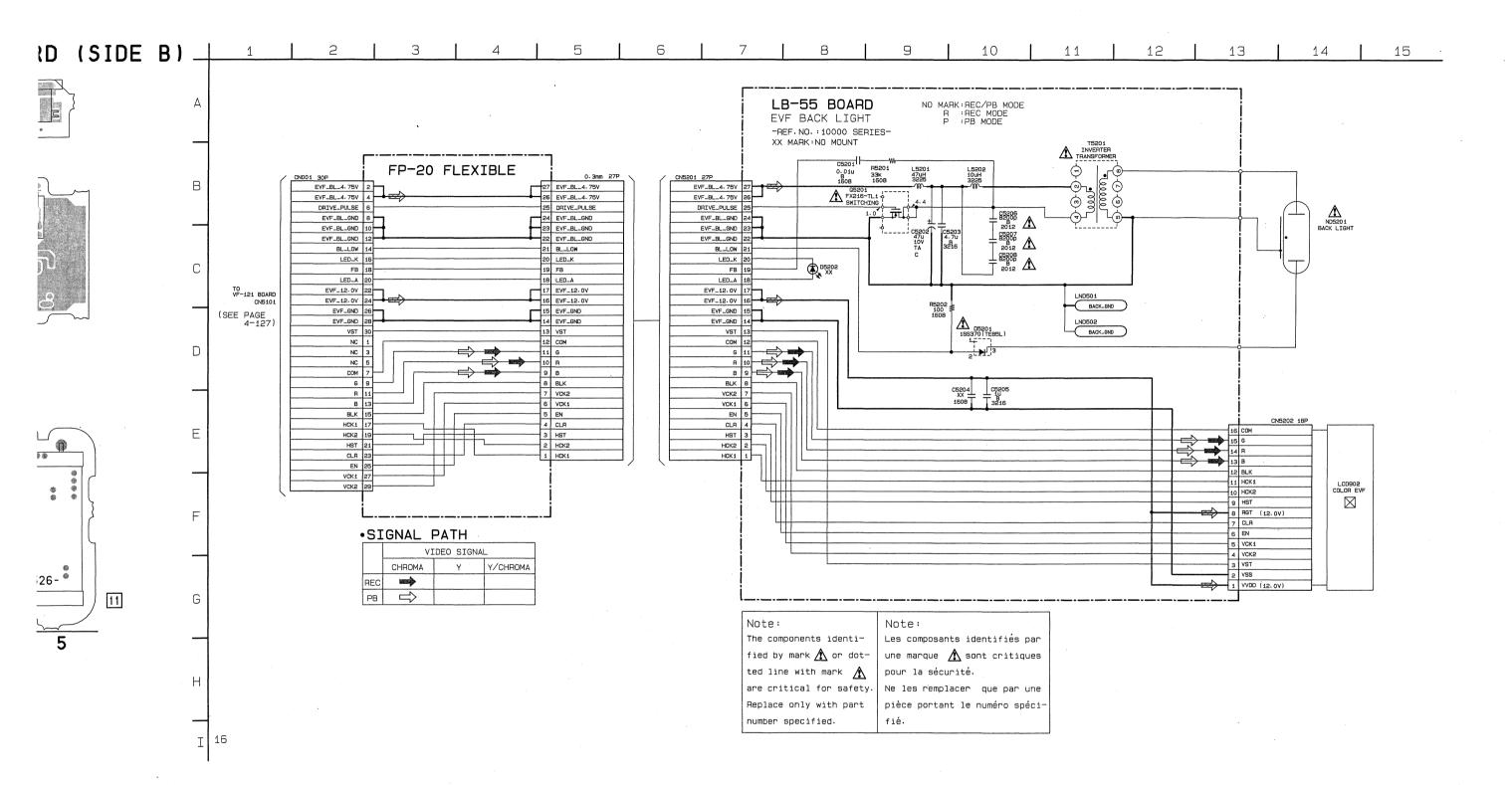


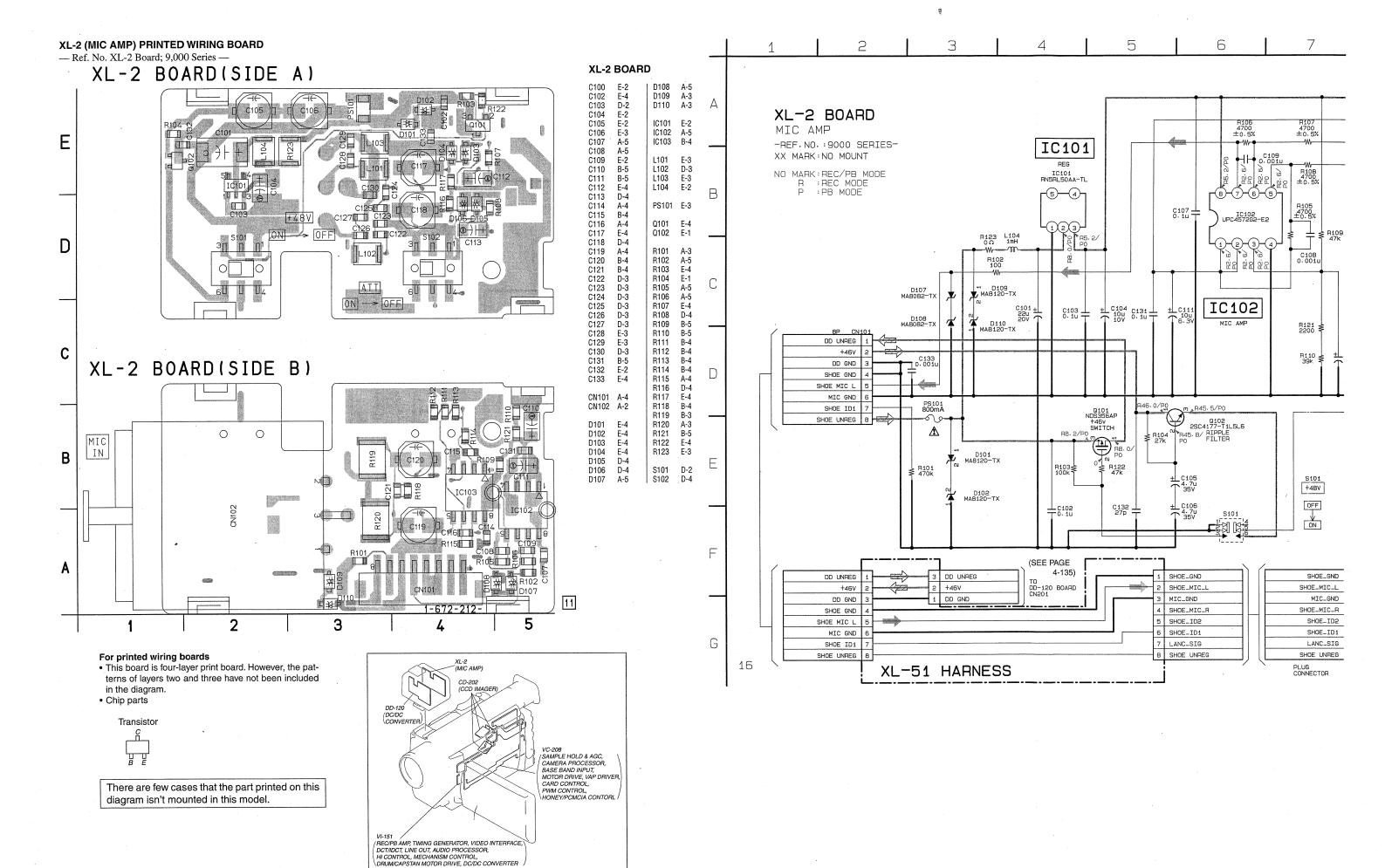
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26

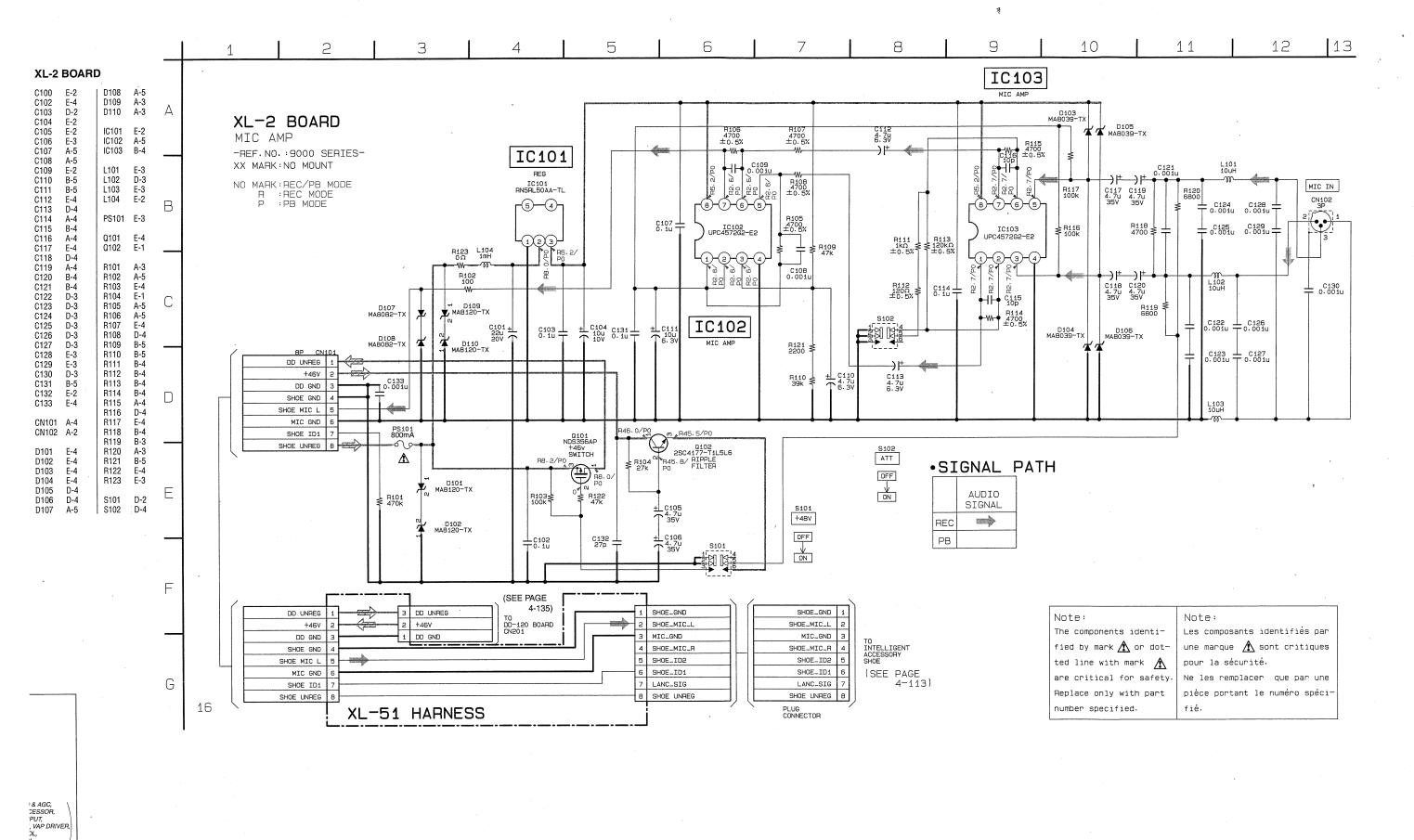












MIC AMP

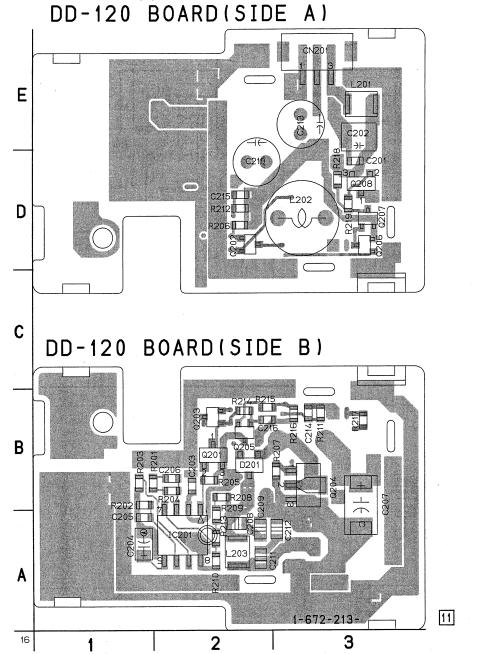
IL, IA CONTORL

DD-120 BOARD

Q202 D-2 Q203 B-2 Q204 B-3 Q205 B-2 Q206 D-3 Q207 D-3 Q208 D-3 C201 C202 C203 C204 C205 C206 C207 C208 C209 C210 C211 C212 C213 C214 C215 C216 E-3 B-2 A-1 A-1 B-2 B-3 A-2 A-2 D-2 A-3 E-3 B-3 D-2 R201 R202 R203 R204 R205 R202 B-1 R203 B-1 R204 B-2 R205 B-2 R206 D-2 R207 B-3 R208 B-2 R209 A-2 R210 A-2 R211 B-3 R212 D-2 R213 A-2 R214 B-2 R215 B-2 R216 B-3 R217 B-3 R217 B-3 R218 D-3 R219 D-3 B-2 CN201 E-3 D201 IC201 A-2 L201 E-3 L202 D-3 L203 A-2 Q201 B-2

DD-120 (DC/DC CONVERTER) PRINTED WIRING BOARD

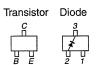
— Ref. No. DD-120 Board; 9,000 Series —



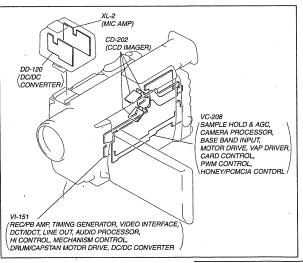
5 6 3 4 DD-120 BOARD NO MARK:REC/PB MODE R :REC MODE P :PB MODE DC/DC CONVERTER А -REF.NO.:9000 SERIES-XX MARK: NO MOUNT R201 2200 В IC201 R0.2/P0 R219 47k SWITCHING REG. R8.2/P0 Q202 2SC4177-T1L5L6 BUFFER CN201 RB. 2/P RO. 5/PO DD UNREG +46V DD GND 1 (SEE PAGE •R0,6/P \square Q203 2SA1611T1-M5M6 BUFFER C201 十 C202 10u 20V C203 0. 1u RO. 2/P Q207 2SC4177-T1L5L6 E 16

For printed wiring boards

- This board is four-layer print board. However, the patterns of layers two and three have not been included in the diagram.
- Chip parts

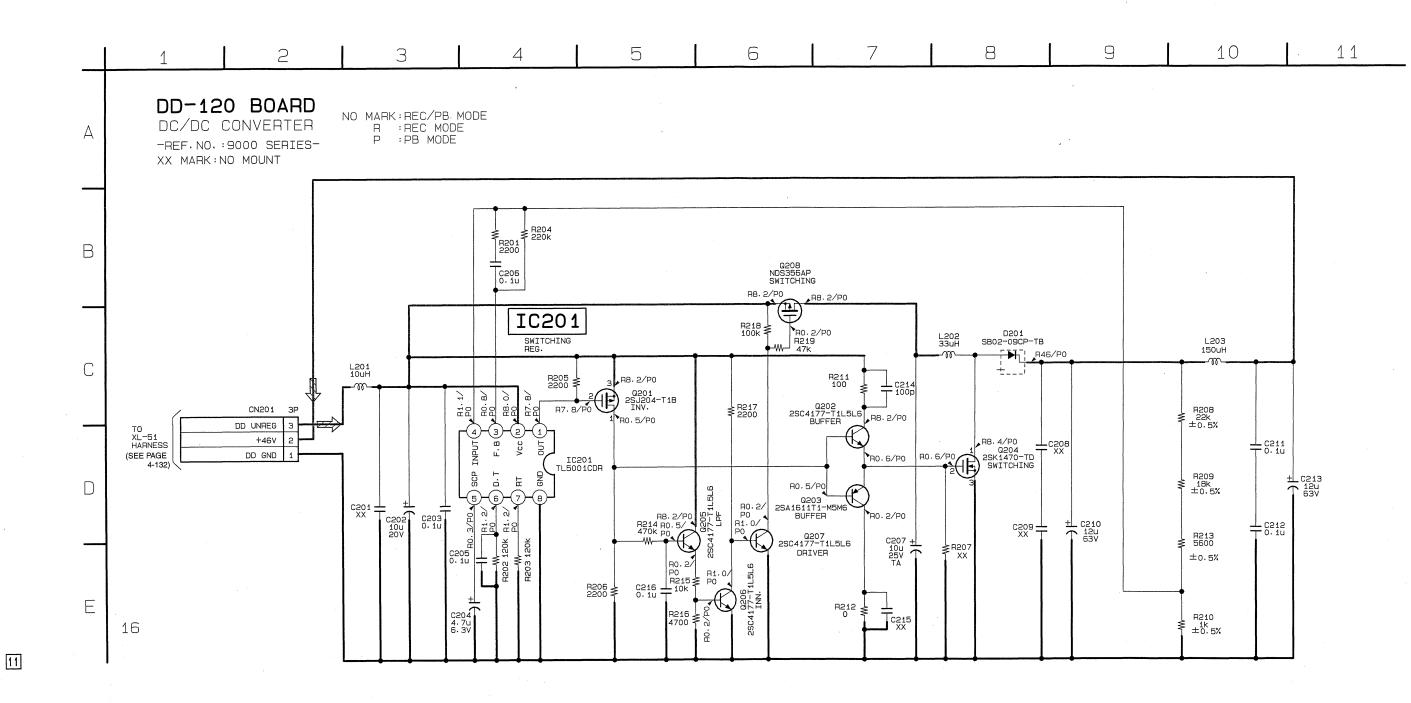


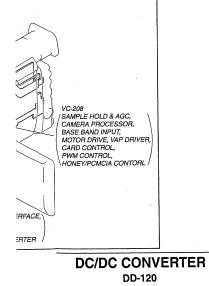
There are few cases that the part printed on this diagram isn't mounted in this model.



DC/DC CONVERTER
DD-120

4-135





DD-120

SECTION 5 ADJUSTMENTS

5-1. CAMERA SECTION ADJUSTMENT

NTSC model: DSR-PD100 PAL model: DSR-PD100P

1-1. PREPARATIONS BEFORE ADJUSTMENT (CAMERA SECTION)

1-1-1. List of Service Tools

Oscilloscope

J-21

J-22 J-23

J-24

Mini DV torque cassette

Mode Selector II ROM

Mode Selector II

Bending stick

Regulated power supplyDigital voltmeter

• Vectorscope

• Color monitor

| Ref. No. | Name | Parts Code | Usage |
|-------------|---|------------------------------|---|
| J-1 | Filter for color temperature correction (C14) | J-6080-058-A | Auto white balance adjustment/check White balance adjustment/check |
| J-2 | ND filter 1.0 ND filter 0.3 | J-6080-808-A J-6080-818-A | White balance check White balance check |
| J-3 | Pattern box PTB-450 | J-6082-200-A | |
| J-4 | Color chart for pattern box | J-6020-250-A | |
| J-5 | Adjustment remote commander (RM-95 upgraded). (Note 1) | J-6082-053-B | |
| J-6 | Siemens star chart | J-6080-875-A | For checking the flange back |
| J-7 | Clear chart for pattern box | J-6080-621-A | |
| J-8 | CPC-8 jig | J-6082-388-A | For adjusting the video section For adjusting the LCD system For adjusting the viewfinder |
| J -9 | Extension cable (60P, 0.5 mm) | J-6082-431-A | For extension between the VC-208 board (CN761) and the CK-80 board (CN7208) |
| J-10 | Extension cable (100P, 0.5 mm) | J-6082-432-A | For extension between the VC-208 board (CN900) and the VI-151 board (CN2901) |
| J-11 | Extension cable (39P, 0.3 mm) | J-6082-433-A | For extension between the JK-163 board (CN7102) and the VI-151 board (CN2903) |
| J-12 | Cleaning fluid | Y-2031-001-0 | |
| J-13 | Wiping cloth | 7-741-900-53 | |
| J-14 | Super fine applicator (made by NIPPON APPLICATOR (P752D)) | - | |
| J-15 | Mirror (Small oval type) | J-6080-840-A | |
| J-16 | Screwdriver for tape path | J-6082-026-A | Tape path for adjusting tape guide |
| J-17 | Torque driver | J-9049-330-A | |
| J-18 | TG1 adjustment jig | J-6082-420-A | FWD position adjustment |
| J-19 | Mode selector conversion board (C) | J-6082-417-A | |
| J-20 | Tracking tape (XH2-1A1)(NTSC/PAL) | 8-967-999-03 | |

J-6082-314-D

J-6082-419-A

J-6082-282-A For all operating

J-6082-360-A For FWD torque, REV torque and FWD back tension

Corresponds to C mechanism (Note 2)

Note 1: If the microprocessor IC in the adjustment remote commander is not the new microprocessor (UPD7503G-C56-12), the pages cannot be switched. In this case, replace with the new microprocessor (8-759-148-35).

Note 2: ROM for version upgrading to allow use of the mode selector II with the C mechanism.

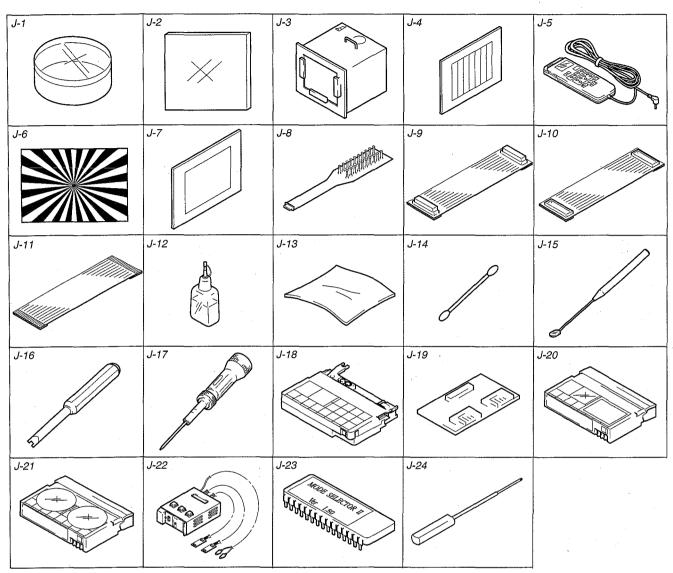


Fig. 5-1-1

1-1-2. Preparations

Note 1: For details of how remove the cabinet and boards, refer to "2. DISASSEMBLY".

Note 2: When performing only the adjustments, the lens block and boards need not be disassembled.

- 1) Connect the equipment for adjustments according to Fig. 5-1-
- 2) The front panel block (MA-333 board, focus ring, focus switch, ND filter switch, microphone unit) must be assembled because the focus ring and ND filter switch are used for adjustments.
- 3) The viewfinder (VF-121 board, LB-55 board) and upper cabinet (LCD window, ED-48 board) are need not be connected. To remove them, disconnect the following connectors.
 - 1. VI-151 board CN2905 (20P, 0.5 mm)
 - 2. CK-80 board CN7207 (24P, 0.5 mm)
 - 3. CK-80 board CN7203 (5P, 0.5 mm)
- Note 3: As removing the cabinet (R) (removing the VI-151 board CN2906) means removing the lithium 3V power supply (BT7200), data such as date, time, user-set menus will be lost. After completing adjustments, reset these data. If the cabinet (R) has been removed, the self-diagnosis data, data on history of use (total drum rotation time etc.) will be lost. Before removing, note down the self-diagnosis data and the data on history use (data of page: 2, address: A2 to AA). (Refer to "SELF-DIAGNOSIS FUNCTION" for the self-diagnosis data, and to "5-4. Service Mode" for the data on the history use.)
- Note 4: Setting the "Forced Camera Power ON" Mode
 - 1) Select page: 0, address: 01, and set data: 01.
 - 2) Select page: O, address: 10, set data: 01, and press the PAUSE button of the adjustment remote commander. The above procedure will enable the camera power to be turned on with the operation switch block (FK-4880) removed. After completing adjustments, be sure to exit the "Forced Camera Power ON Mode".
- Note 5: Exiting the "Forced Camera Power ON" Mode
 - 1) Select page: 0, address: 01, and set data: 01.
 - 2) Select page: D, address: 10, set data: 00, and press the PAUSE button of the adjustment remote commander.
 - 3) Select page: 0, address: 01, and set data: 00.

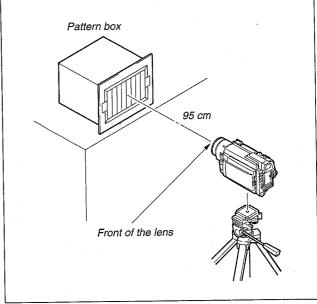


Fig. 5-1-2

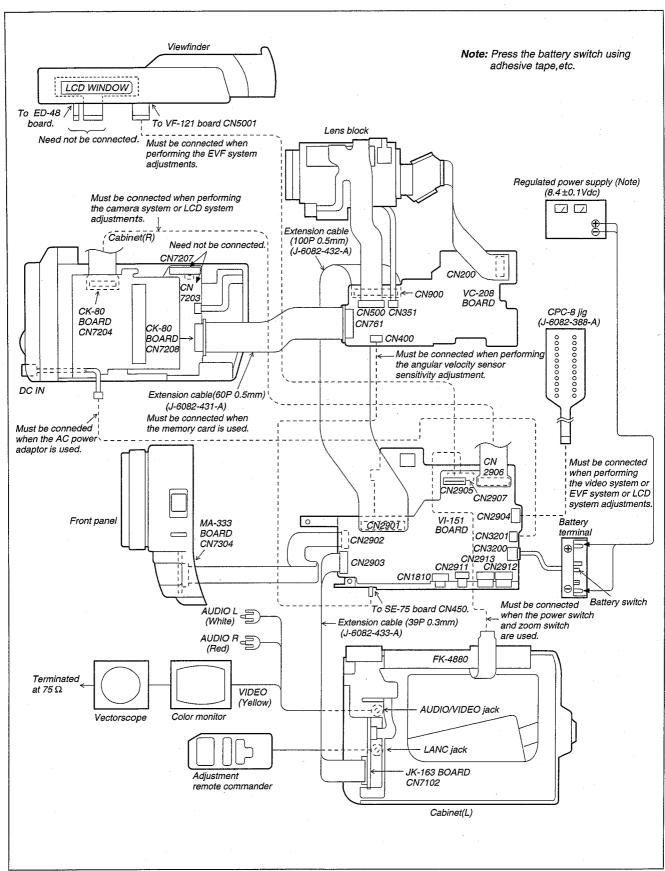


Fig. 5-1-3

1-1-3. Precaution

1. Setting the Switch

Unless otherwise specified, set the switches as follows and perform adjustments without loading cassette

| auju | ISTITICITES MITHOUT TOUGHTS cassocies. | |
|--------------|--|-----------|
| 1. | POWER switch (FK-4880 block) | CAMERA |
| 2. | DIGITAL ZOOM (Menu display) | OFF |
| 3 | STEADY SHOT (Menu display) | OFF |
| 1 | DISPLAY (Menu display) | V-OUT/LCD |
| - | DISPLAY (CK-80 board) | ON |
| J. | AUTO LOCK (CK-80 board) | AUTC |
| 0. | ND FILTER | OFF |
| 7. | ND FILTER | |

| 8. | FOCUS switch (FP-21) | MANUAL |
|-----|------------------------------|--------|
| 9. | BACK LIGHT (ED-48 board) | OFF |
| 10. | PICTURE EFFECT (CK-80 board) | OFF |
| | DIGITAL EFFECT (CK-80 board) | |
| | 16: 9 WIDE (Menu display) | |
| | AUTO SHUTTER (Menu display) | |
| | PROG.SCAN (Menu display) | |
| ~ | T 27 | |

2. Order of Adjustments

Basically carry out adjustments in the order given.

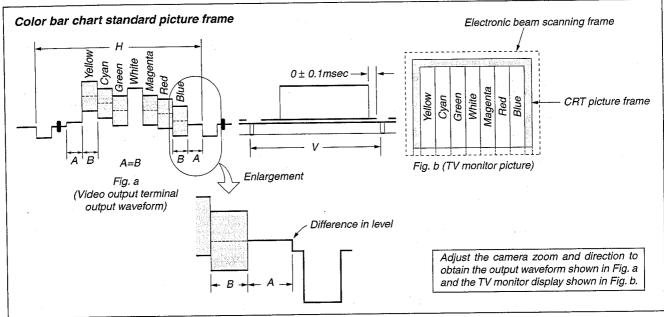
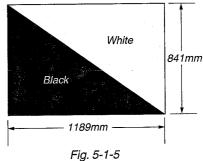


Fig. 5-1-4

3. Subjects

- Color bar chart (Standard picture frame).
 - When performing adjustments using the color bar chart, adjust the picture frame as shown in Fig. 5-1-4. (Standard picture frame)
- 2) Clear chart (Standard picture frame)
 - Remove the color bar chart from the pattern box and insert a clear chart in its place. (Do not perform zoom operations during
- 3) Flange back adjustment chart
 - Make the chart shown in Fig. 5-1-5 using A0 size (1189 mm \times 841 mm) black and white vellum paper.



Note: Use matte vellum paper bigger than A0, and make sure the edges of the black and white paper joined together are not rough.

1-2. INITIALIZATION OF F, E PAGE DATA

1. Initializing the F, E Page Data

Note: If the F, E page data is initialized, the following adjustments must be performed again.

- 1) Modification of F, E Page Data
- 2) Camera System Adjustments

| Adjusting page | F |
|-------------------|----------|
| Adjusting Address | 10 to FF |
| Adjusting page | Е |
| Adjusting Address | 00 to 9B |

Initializing Method:

- 1) Set the power switch to the CAMERA position.
- 2) Select page: 0, address: 01, and set data: 01.
- 3) Select page: 6, address: 01, and set data: 2D (NTSC) or data: 2F (PAL), and press the PAUSE button of the adjustment remote commander.
- 4) Select page: 6, address: 03, set data: 01, and press the PAUSE button of the adjustment remote commander.
- 5) Select page: 6, address: 02, and check that the data is "01".
- 6) Perform "Modification of F, E Page Data".

2. Modification of F, E Page Data

If the F, E PAGE data has been initialized, change the data of the "Fixed data-2" address shown in the following tables by manual input.

Modifying Method:

- 1) Before changing the data, select page: 0, address: 01, and set data: 01.
- 2) New data for changing are not shown in the tables because they are different in destination. When changing the data, copy the data built in the same model.

Note: If copy the data built in the different model, the camcorder may not operate.

- 3) When changing the data, press the PAUSE button of the adjustment remote commander each time when setting new data to write the data in the non-volatile memory.
- Check that the data of adjustment addresses is the initial value.
 If not, change the data to the initial value.

Processing after Completing Modification of F, E Page data

- 1) Select page: 2, address: 00, and set data: 29.
- 2) Select page: 2, address: 01, and set data: 29, and press the PAUSE button of the adjustment remote commander.
- 3) Perform the "Camera System Adjustments".

3. F Page Table

Note: Fixed data-1: Initialized data. (Refer to "1. Initializing the F, E

Page Data")

Fixed data-2: Modified data. (Refer to "2. Modification of F, E Page Data")

| ^ ddroop | l . | value | Remark | |
|----------|------|-------|--------------------|--|
| Address | NTSC | PAL | nelliaik | |
| 00 to 0F | | | | |
| 10 | | | Fixed data-1 | |
| 11 | | | (Initialized data) | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | • | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |

| Address | | value | Remark |
|----------|----------|----------|-------------------------------------|
| | NTSC | PAL | |
| 19 | | | Fixed data-1 |
| 1A | | | (Initialized data) |
| 1B | - 00 | - 00 | 100.00 |
| 1C | 80 | · 80 | 27MHz origin osc. adj. |
| 1D | | - 60 | Fixed data-1 |
| 1E | 60 | 60 | IRIS & ND HALL adj. |
| 1F | 40 | 60 | AW/D at and data insurt |
| 20 | 28 | 28 | AWB standard data input |
| 22 | 00 | 00 | |
| 23 | 50 | 50 | |
| 24 | 8E | 2C | Flange back adj. |
| 25 | 1A | 17 | Trange back adj. |
| 26 | 80 | 78 | |
| 27 | 24 | 1D | |
| 28 | 65 | FB | |
| 29 | 11 | 12 | · . |
| 2A | | <u> </u> | Fixed data-1 |
| 2B | | | |
| 2C | 64 | 64 | Max gain adj. |
| 2D | | · | Fixed data-1 |
| 2E | | | (Initialized data) |
| 2F | | | |
| 30 | | | |
| 31 | | | |
| 32 | | | |
| 33 | | | |
| 34 | 88 | 90 | Auto white balance adj. |
| 35 | 6C | 8F | |
| 36 | D6 | D6 . | Flange back adj. |
| 37 | E6 | E6 | |
| 38 | 15 | 23 | · |
| 39 | 45 | 10 | |
| 3A 3B | 3F 3F | 19 | |
| 3C | 16 | 27 | |
| 3D | A8 | A8 | |
| 3E | 80 | 80 | LV standard data input |
| 3F | 76 | 76 | 27 Standard data Input |
| 40 | 70 | 70 | Fixed data-1 |
| 41 | 50 | 50 | Angular velocity sensor sensitivity |
| 42 | 50 | 50 | adj. |
| 43 | | | Fixed data-1 |
| 44 | D5 | D5 | Color reproduction adj. (1) |
| 45 | EC | EC | (ND filter OFF) |
| 46 | 20 | 20 | |
| 47 | 20 | 20 | |
| 48 | 60 | 60 | IRIS & ND HALL adj. |
| 49 | 40 | 60 | |
| 4A | 00 | 00 | WB ND filter compensation adj. |
| 4B | 00 | 00 | |
| 4C | 89 | 89 | IRIS & ND HALL adj. |
| 4D | - | | Fixed data-1 |
| 4E | | | (Initialized data) |
| 4F | | | |
| 50 | | | Fixed data-2 |

| A -1 -1 | Initial | value | Bomoule |
|----------------|-----------------|-------------------------|--|
| Address | NISC | PAL | Remark |
| 51 | | Parting. | Fixed data-2 |
| 52 | | | Fixed data-1 |
| 53 | | | (Initialized data) |
| 54 | | | |
| 55 |) | | |
| 56 | | | |
| 57 | | | Fixed data-2 |
| 58 | | | Fixed data-1 |
| 59 | 1 | | (Initialized data) |
| 5A | 1 | | |
| 5B | 1 | | • |
| 5C | 1 | | |
| 5D | 1 | | |
| 5E | | | Fixed data-2 |
| 5F | 1 | <u> </u> | Fixed data-1 |
| 60 | | | Fixed data-2 |
| 61 | | <u> </u> | Fixed data-1 |
| 62 | 1 | | |
| 63 | <u> </u> | | Fixed data-2 |
| 64 | 1 | | (Modified data, copy the data built in |
| 65 | - | | the same model.) |
| 66 | | | Fixed data-1 |
| | - | | (Initialized data) |
| 67 | -{ | | (midanzed data) |
| 68 | 4 | | * • |
| 69 | -{ | | |
| 6A | | | |
| 6B | | State Ships | Fixed data-2 |
| 6C | | sternáření Granitika | |
| 6D | William Comment | ig se salas | on the first territory and the second of the first of the second |
| 6E | 1 | | Fixed data-1 |
| 6F | | | |
| 70 | 89 | 89 | IRIS & ND HALL adj. |
| 71 | } . | | Fixed data-1 |
| 72 | | | (Initialized data) |
| 73 | | | |
| 74 | | | Fixed data-2 |
| 75 |] | | Fixed data-1 |
| 76 | 1 | | (Initialized data) |
| 77 | | | |
| 78 | | | |
| 79 | | | |
| 7A | | | |
| 7B | 1 | | |
| 7C | 1 | | 1 |
| 7D | | | |
| 7E | 7. | | |
| 7F | 7 | | |
| 80 | 1 | | |
| 81 | 1 | | |
| 82 | 1 | | |
| 83 | 1 | | |
| 84 | 1 | | |
| 85 | 1 | | |
| 86 | 1 | | |
| | - | | |
| 87 | - | | |
| 88 | 1 | | |

| Address | Initial | value | Day | |
|---------|---------|------------------------------|--------------------|------|
| Address | NTSC | PAL | ner Her | nark |
| 89 | | | Fixed data-1 | |
| 8A | | | (Initialized data) | |
| 8B | | | | |
| 8C | | | | |
| 8D | | | | |
| 8E | | | | |
| 8F | 1 | | | |
| 90 | 1 | | | |
| 91 | | | | |
| 92 | | | | |
| 93 | | | | |
| 94 | | | | |
| 95 | 1 | | | • |
| 96 | | | | |
| 97 | ļ | | | |
| 98 | j . | | | |
| 99 | 1 | | | |
| 9A | | Tarana ing t Manada ing t | Fixed data-2 | |
| 9B | · | | Fixed data-1 | |
| 9C | | | (Initialized data) | |
| 9D | 1 | | | |
| 9E | 1 | | | |
| 9F | 1 | | | |
| A0 | 1 | | | |
| A1 | 1 | | | |
| A2 | | | | |
| A3 | } | | | |
| A4 | 1 | | | |
| A5 |] | | | |
| A6 | | 131. 1 | Fixed data-2 | |
| A7 | | | Fixed data-1 | |
| A8 | | | (Initialized data) | • |
| A9 | | | | |
| AA | 1 | | | |
| AB | | | | |
| AC | 1 | | | |
| AD | j | | | |
| AE | | | | |
| AF | | | | |
| B0 | Ì | | | |
| B1 | | | | |
| B2 | | | | |
| В3 | | | | |
| B4 | | | | |
| B5 | | | | |
| В6 | | | | |
| B7 | | | | |
| B8 | | | | |
| B9 | | | | |
| BA | | | | |
| ВВ | | | | |
| BC | | | | |
| BD | ' | | | |
| BE | | | | • |
| BF | | | | |
| C0 | | | | · |

| Address | Initial value | Remark |
|---------|-----------------------------------|--|
| | NTSC PAL | |
| C1 | | Fixed data-1 |
| C2 | | (Initialized data) |
| C3 | | |
| C4 | | |
| C5 | | |
| C6 | | Fixed data-2 |
| C7 | | (Modified data, copy the data built in |
| C8 | | the same model.) |
| C9 | | |
| CA | | Fixed data-1 |
| СВ | | |
| CC | and the first set that is the fit | Fixed data-2 |
| CD | | (Modified data, copy the data built in |
| CE | | the same model.) |
| CF | | iki kulor enga perdira kalangan kulor salah salah dibirah kalangan berakan kelangan berakan berakan berakan be Pada pada kelangan berakan ber |
| D0 | | |
| D1 | | |
| D2 | SANTE FARMANA | |
| D3 | | Fixed data-1 |
| D4 | 1 | (Initialized data) |
| D5 | 1 | |
| D6 | 1 | |
| D7 | 1 | |
| D8 | 1 | |
| D9 | 1 | |
| DA | † | |
| DB | 1. | |
| DC | † | |
| DD | † | |
| DE | - | |
| DF | 1 | |
| E0 | _ | , |
| E1 | 1 | |
| E2 | 1 | |
| E3 | - | |
| | _ | |
| E4 | 4 | |
| E5 | 1 . | |
| E6 | 1 | |
| E7 | 1 | |
| E8 | 1 | |
| E9 | 4 | |
| EA | 4 | |
| EB | 4 | |
| EC | 1 | |
| ED | | |
| EE | _ | |
| EF | 1 | |
| F0 | <u> </u> | |
| F1 |] | |
| F2 | | |
| F3 | | |
| F4 | | |
| F5 | _ | |
| F6 | _ | |
| F7 |] | |
| F8 | | |

| Address | Initial value | | Daireada |
|------------|----------------|--|--------------|
| | NTSC PAL Remai | | Remark |
| F 9 | | | Fixed data-2 |
| FA | | | Fixed data-1 |
| FB | | | |
| FC | | | Fixed data-2 |
| FD | | | Fixed data-1 |
| FE | | | |
| FF | | | |

Table. 5-1-1

4. E Page Table

Note: Fixed data-1: Initialized data. (Refer to "1. Initializing the F, E
Page Data")

Fixed data-2: Modified data. (Refer to "2. Modification of F, E

| | Initial | value | Remark |
|---------|--|---|--|
| Address | NTSC | | Hemark |
| 00 | | ta i Salay iid | Fixed data-2 |
| 01 | | | Fixed data-1 |
| 02 | | | (Initialized data) |
| 03 | | | |
| 04 | | | |
| 05 | 1 | | |
| 06 | | | |
| 07 | 1 | | |
| 08 | 1 | | |
| 09 | in faith-sais s | Japan, | Fixed data-2 |
| 0A | <u> </u> | 20 <u>41 (472)</u> | Fixed data-1 |
| OB | 15/10/2019 | | Fixed data-2 |
| 0C | Control of the Contro | # 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | Fixed data-1 |
| 0D | - | | (Initialized data) |
| | - | | (maanzea aaa) |
| 0E | 4 | | |
| 0F | - | | |
| 10 | | - 3 4 33 4 | Fixed data-2 |
| 11 | 1 2 2 2 2 2 2 2 | t de a contrata | Fixed data-1 |
| 12 | | | |
| 13 | 4 | | (Initialized data) |
| 14 | _ | | |
| 15 | 1 | | na Barra Barra (1981) and a same and the same |
| 16 | 1.44 | | Fixed data-2 |
| 17 | | Particular Section 1981 | |
| 18 | | | Fixed data-1 |
| 19 | | | (Initialized data) |
| 1A | 7 | | |
| 1B | | | |
| 1C | 7 | | |
| 1D | | | |
| 1E | - | | |
| 1F | | | |
| 20 | = | • | |
| 21 | - | | |
| 22 | - | | |
| 23 | | | |
| 24 | - | | |
| 25 | - | | |
| 26 | - | | |
| | - | | |
| 27 | | | |
| 28 | - | | |
| 29 | 10 | 40 | Pre white balance data input |
| 2A | 40 | 40 | File white balance data input |
| 2B | 40 | 40 | Fined data 1 |
| 2C | | 1 00 | Fixed data-1 |
| 2D | 80 | 80 | OFFSET adj. |
| 2E | 80 | 80 | _ |
| 2F | 80 | 80 | |
| 30 | | | Fixed data-1 |
| 31 | | | (Initialized data) |
| 32 | | | |
| 33 | | | |

| | Initial v | /alue | Domosta |
|---------|---------------------------------------|--|-----------------------------|
| Address | NTSC | PAL | Remark |
| 34 | | | Fixed data-1 |
| 35 | - | | (Initialized data) |
| 36 | | | |
| 37 | | | |
| 38 | | | |
| 39 | | | |
| 3A | | | |
| 3B | | | |
| 3C | - | | |
| 3D | | | |
| 3E | 1 | | |
| ļ | - | | |
| 3F | 1 | | |
| 40 | - | | |
| 41 | | | |
| 42 | | | |
| 43 | 4 | | |
| 44 | 1 | | |
| 45 | | | |
| 46 | 1 | | |
| 47 | | | |
| 48 | 80 | 80 | PSD sensor gain adj. |
| 49 | 80 | 80 | |
| 4A | _ | | Fixed data-1 |
| 4B | 1 | | (Initialized data) |
| 4C | | | |
| 4D | e di ji saa gaariyiy Yaqaa ayaa sa | | Fixed data-2 |
| 4E | | | Fixed data-1 |
| 4F | | | (Initialized data) |
| 50 | | | |
| 51 | | | |
| 52 | Elis Sudi | | Fixed data-2 |
| 53 | Table 1880 | | |
| 54 | | | |
| 55 | 7 | | |
| 56 | | | Fixed data-1 |
| 57 | Para in | | Fixed data-2 |
| 58 | | | |
| 59 | | | |
| 5A | | | |
| 5B | Take Vision | | |
| 5C | <u> </u> | <u>, 24 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - </u> | Fixed data-1 |
| 5D | 1 1 1 4 N S | 41.44 | Fixed data-2 |
| 5E | | | Fixed data-1 |
| 5F | - | | (Initialized data) |
| 60 | - | | , |
| 61 | - | | |
| 62 | D5 | D5 | Color reproduction adj. (2) |
| 63 | EC | EC | (ND filter ON) |
| 64 | 20 | 20 | |
| 65 | 20 | 20 | - |
| 66 | 20 | 20 | Fixed data-1 |
| | - | | I Mod data I |
| 67 | - | | |
| 68 | | | Fired data 2 |
| 69 | 1 | | Fixed data-2 |
| 6A | | | Fixed data-1 |
| 6B | | | (Initialized data) |

| Address | Initial value | Demont. |
|----------|--------------------------|--------------------|
| Address | NTSC PAL | Remark |
| 6C | • | Fixed data-1 |
| 6D | | (Initialized data) |
| 6E | | |
| 6F | | |
| 70 | | |
| 71 | | |
| 72 | | |
| 73 | | |
| 74 | | |
| 75 | | |
| 76 | | |
| 77 | · | |
| 78 | | |
| 79 | | |
| 7A | | |
| 7B | | |
| 7C | | |
| 7D | | |
| 7E | | |
| 7F | | |
| 80 | | |
| 81 | get waterspring | Fixed data-2 |
| 83 | | Fixeu data-2 |
| 84 | La la casa de destablica | Fixed data-1 |
| 85 | | (Initialized data) |
| 86 | | (maanzed data) |
| 87 | | |
| 88 | | |
| 89 | | |
| 8A | | Fixed data-2 |
| 8B | | Fixed data-1 |
| 8C | | Fixed data-2 |
| 8D | | |
| 8E | | Fixed data-1 |
| 8F | | (Initialized data) |
| 90 | | |
| 91 | | |
| 92 | | j |
| 93 | | |
| 94 | | |
| 95 | | |
| 96 | | · |
| 97 | | ļ |
| 98 | | |
| 99 | | |
| 9A | | ł |
| 9B | | |
| 9C to FF | | |

Table. 5-1-2

1-3. CAMERA SYSTEM ADJUSTMENTS

Before perform the camera system adjustments, check that the specified value of "Composite Output Y Level Adjustment" and "Composite Output Chroma Level Adjustment" of "Base Band Block Adjustment" of "VIDEO SYSTEM ADJUSTMENT" are satisfied.

1. 27 MHz Origin Oscillation Adjustment (VC-208 Board)

Set the frequency of the clock for synchronization.

If deviated, the synchronization will be disrupted and the color will become inconsistent.

| /O C C C C C C C C C C C C C C C C C C C | | |
|--|---|--|
| Subject | Not required | |
| Measurement Point | Pin ① of IC204 or Pin ② of IC207 or Pin ⑦ of IC300 | |
| Measuring Instrument | Frequency counter | |
| Adjustment Page | F | |
| Adjustment Address | 1C | |
| Specified Value | f=13500000 ± 68 Hz | |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: F, address: 1C, change the data and set the clock frequency (f) to the specified value.
- 3) Press the PAUSE button of the adjustment remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

2. IRIS & ND HALL Auto Adjustment

For detecting the position of the lens iris and ND filter, adjust the hall AMP gain and offset.

| hall AMP gain and onset. | | |
|--------------------------|--|--|
| Subject | Not required | |
| Measurement Point | DDS display data of LCD or TV | |
| Measuring Instrument | monitor (Note 5) | |
| Adjustment Page | F | |
| Adjustment Address | 1E, 1F, 48, 49, 4C, 70 | |
| Specified Value | IRIS display data: 88 to 8A during IRIS OPEN (Note 1) 14 to 18 during IRIS CLOSE (Note 2) ND display data: 14 to 18 during ND filter OFF (Note 3) 88 to 8A during ND filter ON (Note 4) | |

Note 1: Select page: 6, address: 01, set data: 01, and press the PAUSE button of the adjustment remote commander.

Note 2: Select page: 6, address: 01, set data: 03, and press the PAUSE button of the adjustment remote commander.

Note 3: Select page: 6, address: 1C, and set data: 02. Note 4: Select page: 6, address: 1C, and set data: 03.

Note 5: DDS display data of LCD or TV monitor.

CA 00 0000
CA 00 YY XX
L IRIS display data
ND display data

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 6, address: 94, and set data: 89.
- 3) Select page: 6, address: 95, and set data: 16.
- 4) Select page: 6, address: 01, set data: 6D, and press the PAUSE button of the adjustment remote commander. (The HALL adjustment is performed and the adjustment data is stored in page: F, address: 1E, 1F, 48, 49, 4C and 70.)
- 5) Select page: 6, address: 02, and check that the data is "01".

Processing after Completing Adjustments

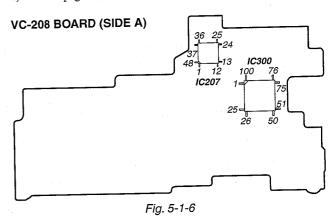
- 1) Select page: 6, address: 94, and set data: 00.
- 2) Select page: 6, address: 95, and set data: 00.
- 3) Select page: 6, address: 01, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

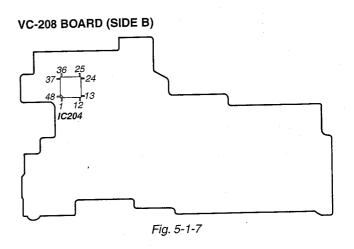
Checking method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 11, set data: 02, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 6, address: 04, and set data: 03.
- Select page: 6, address: 01, set data: 01, and press the PAUSE button
- 5) Check the IRIS display data lies within the "88" to "8A" range.
- 6) Select page: 6, address: 01, set data: 03, and press the PAUSE button.
- 7) Check the IRIS display data lies within the "14" to "18" range.
- 8) Select page: 6, address: 01, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 9) Select page: 6, address: 1C, and set data: 02.
- 10) Check the ND display data lies within the "14" to "18" range.
- 11) Select page: 6, address: 1C, and set data: 03.
- 12) Check the ND display data lies within the "88" to "8A" range.

Processing after Completing Check

- 1) Select page: D, address: 11, and set data: 00, and press the PAUSE button.
- 2) Select page: 0, address: 01, and set data: 00.
- Select page: 6, address: 01, and set data: 00, and press the PAUSE button.
- 4) Select page: 6, address: 1C, and set data: 00.





3. Offset Adjustment

Adjust so that the AGC OUT potential lies within the specified value of the digital clamp.

| Oz 2215 41-9-1111 1-1111 | |
|--------------------------|-------------------------------|
| Subject | Not required |
| Measurement Point | DDS display data of LCD or TV |
| Measuring Instrument | monitor (Note) |
| Adjustment Page | Е |
| Adjustment Address | 2D, 2E, 2F |
| Specified Value | 50 to B0 |

Note: DDS display data of LCD or TV monitor.

CA 00 0000 CA 00 00<u>XX</u>

----Object data

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: D, address: 11, set data: 02, and press the PAUSE button of the adjustment remote commander.
- Select page: 6, address: 01, set data: 07 and press the PAUSE button.
- 4) Select page: 6, address: 04, and set data: 1F.
- 5) Check the DDS display data (Rch OPB) satisfies the specified value. If not perform the Rch offset adjustment.
- 6) Select page: 6, address: 04, and set data: 20.
- Check the DDS display data (Gch OPB) satisfies the specified value. If not perform the Gch offset adjustment.
- 8) Select page: 6, address: 04, and set data: 21.
- 9) Check the DDS display data (Bch OPB) satisfies the specified value. If not perform the Bch offset adjustment.
- Select page: 6, address: 01, and set data: 05 and press the PAUSE button.
- 11) Select page: 6, address: 04, and set data: 1F.
- Check the DDS display data (Rch OPB) satisfies the specified value. If not perform the Rch offset adjustment.
- 13) Select page: 6, address: 04, and set data: 20.
- 14) Check the DDS display data (Gch OPB) satisfies the specified value. If not perform the Gch offset adjustment.
- 15) Select page: 6, address: 04, and set data: 21.
- 16) Check the DDS display data (Bch OPB) satisfies the specified value. If not perform the Gch offset adjustment.

· Rch offset adjustment

- Select page: E, address: 0C, set data: 02, and press the PAUSE button.
- 2) Select page: E, address: 2D, change the data and adjust the DDS display data to the specified value.

· Gch offset adjustment

- Select page: E, address: 0C, set data: 02, and press the PAUSE button.
- Select page: E, address: 2E, change the data and adjust the DDS display data to the specified value.

Bch offset adjustment

- 1) Select page: E, address: 0C, set data: 02, and press the PAUSE button
- Select page: E, address: 2F, change the data and adjust the DDS display data to the specified value.

- Select page: D, address: 11, set data: 00, and press the PAUSE button.
- Select page: E, address: 0C, set data: 00, and press the PAUSE button.
- 3) Select page: 0, address: 01, and set data: 00.
- 4) Select page: 6, address: 01, and set data: 00, and press the PAUSE button.
- 5) Select page: 6, address: 04, and set data: 00.

4. Flange Back Adjustment

The inner focus lens flange back adjustment is carried out automatically. In whichever case, the focus will be deviated during auto focusing/manual focusing.

4-1. Flange Back Adjustment (1)

| Subject | Flange back adjustment chart (2.0 m from the front of the lens) (Luminance: 230 ± 30 lux) | |
|----------------------|---|--|
| Measurement Point | Check operation on TV monitor | |
| Measuring Instrument | Check operation on 1 v monitor | |
| Adjustment Page | F | |
| Adjustment Address | 24 to 29, 36 to 3D | |

Adjusting method:

- Check that at both the zoom lens TELE end and WIDE end, the center of the chart for the flange back adjustment and center of the exposure screen coincide.
- 2) Select page: 0, address: 01, and set data: 01.
- 3) Check that the data of page: F, address: 24 to 29, 36 to 3D is

| | Da | ta | Address | Da | ıta |
|---------|------|-----|---------|------|-----|
| Address | NTSC | PAL | Address | NTSC | PAL |
| 24 | 8E | 2C | . 37 | E6 | E6 |
| 25 | 1A | 17 | 38 | 15 | 23 |
| 26 | 80 | 78 | 39 | 45 | 00 |
| 27 | 24 | 1D | 3A | 3F | 19 |
| 28 | 65 | FB | 3B | 3F | 00 |
| 29 | 11 | 12 | 3C | 16 | 27 |
| 36 | D6 | D6 | 3D | A8 | A8 |

the initial value (See table below).

- 4) Select page: 6, address: 02, and check that the data is "00".
- 5) Select page: 6, address: 01, set data: 13, and press the PAUSE button of the adjustment remote commander.
- 6) Select page: 6, address: 01, set data: 15, and press the PAUSE button of the adjustment remote commander.

 (The adjustment data will be automatically input to page: F, addresses: 24 to 29, 36 to 3D.)
- 7) Select page: 6, address: 02, and check that the data is "01".

Processing after Completing Adjustments

- Select page: 6, address: 01, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 2) Perform "Flange Adjustment (2)".

4-2. Flange Back Adjustment (2)

Perform this adjustment after performing "Flange Back Adjustment

| Subject | Subject more than 500 m away (Subjects with clear contrast such as buildings, etc.) | |
|----------------------|---|--|
| Measurement Point | Check operation on TV monitor | |
| Measuring Instrument | Check operation on 1 v monitor | |
| Adjustment Page | F | |
| Adjustment Address | 24 to 29, 36 to 3D | |

Adjusting method:

- Set the zoom lens to the TELE end and expose a subject that is more than 500 m away (subject with clear contrast such as building, etc.). (Nearby subjects less than 500 m away should not be in the screen.)
- 2) Select page: 0, address: 01, and set data: 01.
- Select page: 6, address: 02, and check that the data is "00".
- 4) Select page: 6, address: 01, set data: 13, and press the PAUSE button of the adjustment remote commander.
- Place a ND filter on the lens so that the optimum image is obtain.
- 6) Select page: 6, address: 01, set data: 29, and press the PAUSE button of the adjustment remote commander.

 (The adjustment data will be automatically input to page: F, addresses: 24 to 29, 36 to 3D.)
- 7) Select page: 6, address: 02, and check that the data is "01".

- 1) Select page: 0, address: 01, and set data: 00.
- 2) Select page: 6, address: 01, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 3) Perform "Flange Back Check".

5. Flange Back Check

| Subject | Siemens star (2.0 m from the front of the lens) (Luminance: 300 ± 50 lux) | |
|----------------------|---|--|
| Measurement Point | Check operation on TV monitor | |
| Measuring Instrument | | |
| Specified Value | Focused at the TELE end and WIDE end. | |

Switch setting:

1) DIGITAL ZOOM (Menu display)OFF

Checking method:

- 1) Place the Siemens star 2.0 m from the front of the lens.
- 3) Shoot the Siemens star with the zoom TELE end.
- 4) Turn on the auto focus.
- 5) Check that the lens is focused (Note).
- 6) Turn off the auto focus.
- While observe the TV monitor, change the zoom to the WIDE end and check that the lens is focused.

Note: When the auto focus is ON, the lens can be checked if it is focused or not by observing the data on the page 1 of the adjustment remote commander.

- 1) Select page: 6, address: 04, and set data: 0F.
- 2) Page 1 shows the state of the focus.

1:00: XX Odd: Focused Even: Unfocused

Processing after Completing Adjustments

1) Select page: 6, address: 04, and set data: 00.

6. Picture Frame Setting

| Subject | Color bar chart standard picture frame (95 cm from the front of the lens) |
|----------------------|---|
| Measurement Point | Video output terminal |
| Measuring Instrument | Oscilloscope and TV monitor |
| Specified Value | A=B, C=D, t= 0 ± 0.1 msec |

Setting method:

- Adjust the zoom and the camera direction, and set to the specified position.
- 2) Mark the position of the picture frame on the monitor display, and adjust the picture frame to this position in following adjustments using "Color bar chart standard picture frame".

Check on the oscilloscope

1. Horizontal period

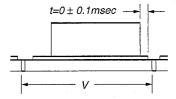
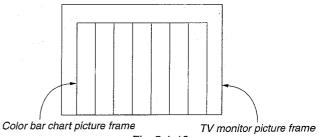


Fig. 5-1-8

2. Vertical period

Fig. 5-1-9

Color on the TV monitor



7. Pre White Balance Data Input

At 3200 k, input the pre white balance standard data.

| Subject | Clear chart (Color bar standard picture frame) |
|--------------------|--|
| Adjustment Page | E |
| Adjustment Address | 2A, 2B |

Switch setting:

1) ND filterOFF

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 6, address: 1C, and set data: 02.
- Select page: F, address: 20, and set data: 00, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: F, address: 21, set data: 28, and press the PAUSE button.
- 5) Select page: F, address: 22, set data: 00, and press the PAUSE button.
- 6) Select page: F, address: 23, set data: 50, and press the PAUSE button.
- 7) Select page: 6, address: 01, set data: 7F, and press the PAUSE button.
- 8) Select page: 6, address: 01, and set data: 7D, press the PAUSE button.
 - (When the standard data is take in, the data will be automatically input to page: E, address: 2A and 2B.)
- 9) Select page: 6, address: 02, and check that the data is "01".

Processing after Completing Adjustments

- Select page: 6, address: 01, and set data: 00, and press the PAUSE button of the adjustment remote commander.
- 2) Select page: 6, address: 1C, and set data: 00.
- 3) Select page: 0, address: 01, and set data: 00.
- 4) Perform "Auto White Balance Standard Data Input".

8. Auto White Balance Standard Data Input

At 3200 K, input the white balance standard data.

| Subject | Clear chart (Color bar standard picture frame) |
|--------------------|--|
| Adjustment Page | F |
| Adjustment Address | 20 to 23 |

Note 1: Perform "Pre White Balance Data Input" before this adjustment. Note 2: Check that the data of page: 6, address: 02 is 00. If not, turn the power of the unit OFF/ON.

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 6, address: 01, and set data: 11, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 6, address: 01, and set data: 0B, and press the PAUSE button.
 - (When the standard data is take in, the data will be automatically input to page: F, address: 20 to 23.)
- 4) Select page: 6, address: 02, and check that the data is "01".

Processing after Completing Adjustments

- 1) Select page: 6, address: 01, and set data: 00, and press the PAUSE button of the adjustment remote commander.
- 2) Select page: 0, address: 01, and set data: 00.

9. MAX GAIN Adjustment

Setting the minimum illumination.

If it is not consistent, the image level required for taking subjects in low illuminance will not be produced (dark).

| Subject | Clear chart (Color bar standard picture frame) (95 cm from the front of the lens) |
|--------------------|---|
| Adjustment Page | F |
| Adjustment Address | 2C |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 6, address: 96, and set data: 00.
- Select page: 6, address: 97, and set data: 2C (NTSC) or data: 21 (PAL).
- 4) Select page: 6, address: 01, set data: 6F and press the PAUSE button of the adjustment remote commander. (When the adjustment data is take in, the data will be automatically input to page: F, address: 2C.)
- 5) Select page: 6, address: 02, and check that the data is changed to "01".

Processing after Completing Adjustments

- 1) Select page: 6, address: 96, and set data: 00.
- 2) Select page: 6, address: 97, and set data: 00.
- 3) Select page: 6, address: 01, and set data: 00, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

10. LV Standard Data Input

Adjust the normal coefficient of the light value.

| Subject | Clear chart (Color bar standard picture frame) |
|--------------------|--|
| Adjustment Page | F |
| Adjustment Address | 3E, 3F |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 6, address: 01, and set data: 0D, and press the PAUSE button of the adjustment remote commander. (When the adjustment data is take in, the data will be automatically input to page: F, address: 3E and 3F.)

- 1) Select page: 6, address: 01, and set data: 00, and press the PAUSE button of the adjustment remote commander.
- 2) Select page: 0, address: 01, and set data: 00.

11. White Balance ND Filter Compensation Adjustment

Compensate the white balance deviation when ND filter is ON.

| Subject | Clear chart (Color bar standard picture frame) |
|--------------------|--|
| Adjustment Page | F |
| Adjustment Address | 4A, 4B |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 6, address: 1C, and set data: 03.
- 3) Wait for 2 seconds.
- 4) Select page: 6, address: 01, and set data: 11, and press the PAUSE button of the adjustment remote commander.
- 5) Select page: 6, address: 01, and set data: 09, and press the PAUSE button.
 - (When the adjustment data is take in, the data will be automatically input to page: F, address: 4A and 4B.)
- 6) Select page: 6, address: 02, and check that the data is changed to "01".

Processing after Completing Adjustments

- Select page: 6, address: 01, and set data: 00, and press the PAUSE button of the adjustment remote commander.
- 2) Select page: 6, address: 1C, and set data: 00.
- 3) Select page: 0, address: 01, and set data: 00.

12. Auto White Balance Adjustment

Adjust to the proper auto white balance output data.

If it is not correct, auto white balance and color reproducibility will be poor.

| Subject | Clear chart (Color bar standard picture frame) |
|--------------------|--|
| Filter | Filter C14 for color temperature correction |
| Adjustment Page | F |
| Adjustment Address | 34, 35 |

Adjusting method:

- Place the C14 filter for color temperature correction on the lens.
- 2) Select page: 0, address: 01, and set data: 01.
- 3) Select page: 6, address: 01, set data: 83, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: 6, address: 01, set data: 81, and press the PAUSE button.
 - (When the adjustment data is take in, the data will be automatically input to page: F, address: 34 and 35.)
- 5) Select page: 6, address: 02, and check that the data is changed to "01".

Processing after Completing Adjustments

- 1) Select page: 6, address: 01, and set data: 00, and press the PAUSE button of the adjustment remote commander.
- 2) Select page: 0, address: 01, and set data: 00.

13. Color Reproduction Adjustment (ND Filter OFF)

When the ND filter is off, adjust the color difference matrix coefficient so that proper color reproduction is produced.

| Subject | Color bar chart standard picture frame |
|----------------------|--|
| Measurement Point | Video output terminal |
| Measuring Instrument | Vectorscope |
| Adjustment Page | F |
| Adjustment Address | 44, 45, 46, 47 |
| Specified Value | All color luminance points should settle within each color reproduction frame. |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: F, address: 5E, set data: 1C, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 6, address: 01, set data: 61, and press the PAUSE button of the adjustment remote commander.
- 4) Adjust the GAIN and PHASE of the vectorscope, and adjust the burst luminance point to the burst position of the color reproduction frame.
- 5) Change the data of page: F, address: 44, 45, 46 and 47, and settle each color luminance point in each color reproduction frame.

Note: Be sure to press the PAUSE button of the adjustment remote commander before changing the addresses. If not, the new data will not be written to the memory.

- 1) Select page: 6, address: 01, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 2) Select page: F, address: 5E, set data: 25, and press the PAUSE button.
- 3) Select page: 0, address: 01, and set data: 00.

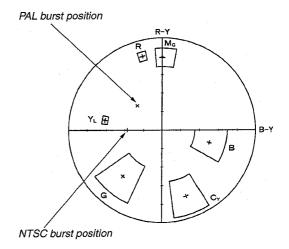


Fig. 5-1-11

14. Color Reproduction Adjustment (ND Filter ON)

When the ND filter is on, adjust the color difference matrix coefficient so that proper color reproduction is produced.

| Subject | Color bar chart standard picture frame |
|----------------------|--|
| Measurement Point | Video output terminal |
| Measuring Instrument | Vectorscope |
| Adjustment Page | E |
| Adjustment Address | 62, 63, 64, 65 |
| Specified Value | All color luminance points should settle within each color reproduction frame. |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: F, address: 5E, set data: 1C, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 6, address: 1C, set data: 03.
- 4) Wait for 2 seconds.
- 5) Select page: 6, address: 01, set data: 85, and press the PAUSE button of the adjustment remote commander.
- 6) Adjust the GAIN and PHASE of the vectorscope, and adjust the burst luminance point to the burst position of the color reproduction frame.
- Change the data of page: E, address: 62, 63, 64 and 65, and settle each color luminance point in each color reproduction frame.

Note: Be sure to press the PAUSE button of the adjustment remote commander before changing the addresses. If not, the new data will not be written to the memory.

Processing after Completing Adjustments

- 1) Select page: 6, address: 01, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 2) Select page: 6, address: 1C, set data: 00.
- 3) Select page: F, address: 5E, set data: 25, and press the PAUSE button
- 4) Select page: 0, address: 01, and set data: 00.

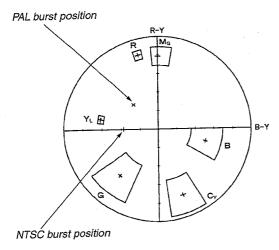


Fig. 5-1-12

15. White Balance Check

| Subject | Clear chart (Color bar standard picture frame) |
|----------------------|--|
| Filter | Filter C14 for color temperature correction ND filter 1.0 and 0.3 |
| Measurement Point | Video output terminal |
| Measuring Instrument | Vectorscope |
| Specified Value | Fig. 5-1-13 (A) to (C) |

Checking method:

- 1) Check that the lens is not covered with either filter.
- 2) Select page: 6, address: 01, set data: 0F, and press the PAUSE button of the adjustment remote commander.
- 3) Check that the center of the white luminance point is within the circle shown Fig. 5-1-13 (A).
- 4) Select page: 6, address: 01, set data: 23, and press the PAUSE button of the adjustment remote commander.
- 5) Place the C14 filter on the lens.
- 6) Check that the center of the white luminance point settles in the circle shown Fig. 5-1-13 (B).
- 7) Remove the C14 filter, and place the ND filter 1.3 (1.0 + 0.3) on the lens.
- Check that the white luminance point stopped moving, and then remove the ND filter 1.3.
- 9) Check that the center of the white luminance point settles within the circle shown Fig. 5-1-13 (C).

Processing after Completing Adjustments

1) Select page: 6, address: 01, and set data: 00, and press the PAUSE button of the adjustment remote commander.

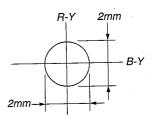


Fig. 5-1-13 (A)

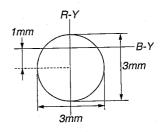


Fig. 5-1-13 (B)

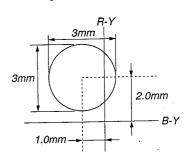


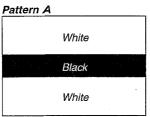
Fig. 5-1-13 (C)

16. PSD Sensor Gain Adjustment

Adjust the gain of the PSD sensor for steady shot operation.

16-1. PSD Sensor Gain Adjustment (1)

| Subject | Pattern A (1.5 m from the front of the lens) |
|----------------------|--|
| Measurement Point | Video output terminal |
| Measuring Instrument | Oscilloscope (V period) |
| Adjustment Page | Е |
| Adjustment Address | 48 |



A4 size (297mm × 210mm) Fig.5-1-14

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: E, address: 48, set data: 80, and press the PAUSE button of the adjustment remote commander.
- Select page: 6, address: 01, set data: 8F, and press the PAUSE button of the adjustment remote commander.
- 4) Expose pattern A with the zoom TELE end.
- 5) Adjust the focus.
- Measure the vertical position SV1 (msec) of the falling edge of the waveform. (Oscilloscope is V period)
- 7) Select page: 6, address: 01, set data: 91, and press the PAUSE button
- 8) Measure the vertical position SV2 (msec) of the falling edge of the waveform. (Oscilloscope is V period)
- Obtain D₄₈' using the following equation (decimal calculation).
 NTSC model

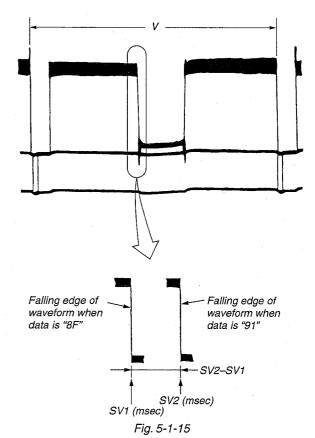
$$D_{48}' = 128 \times (2.88/(SV2-SV1))$$

PAL model

 $D_{48}' = 128 \times (3.40/(SV2-SV1))$

- Convert D₄₈' to hexadecimal notation, and obtain D₄₈. (Round off to one decimal place)
 (Refer to Table 5-4-1. "Hexadecimal-decimal Conversion Table" of "5-4. Service Mode".)
- 11) Select page: E, address: 48, set data: D48, and press the PAUSE button of the adjustment remote commander.

- Select page: 6, address: 01, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 2) Select page: 0, address: 01, and set data: 00.
- 3) Check that the steady shot operation is performed normally.



16-2. PSD Sensor Gain Adjustment (2)

| Subject | Pattern B (1.5 m from the front of the lens) |
|----------------------|--|
| Measurement Point | Video output terminal |
| Measuring Instrument | Oscilloscope (H period) |
| Adjustment Page | Е |
| Adjustment Address | 49 |

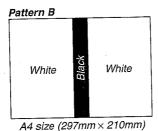
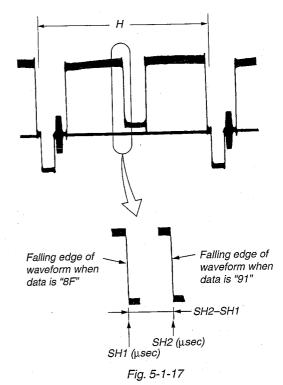


Fig.5-1-16

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: E, address: 49, set data: 80, and press the PAUSE button of the adjustment remote commander.
- Select page: 6, address: 01, set data: 8F, and press the PAUSE button of the adjustment remote commander.
- 4) Expose pattern B with the zoom TELE end.
- 5) Adjust the focus.
- Measure the horizontal position SH1 (μ sec) of the falling edge of the waveform. (Oscilloscope is H period)
- 7) Select page: 6, address: 01, set data: 91, and press the PAUSE button
- 8) Measure the horizontal position SH2 (μ sec) of the falling edge of the waveform. (Oscilloscope is H period)
- 9) Obtain D₄₉' using the following equation (decimal calculation). D₄₉' = 128 × (7.4/(SH2–SH1))
- Convert D₄₉' to hexadecimal notation, and obtain D₄₉. (Round off to one decimal place)
 (Refer to Table 5-4-1. "Hexadecimal-decimal Conversion Table" of "5-4. Service Mode".)
- 11) Select page: E, address: 49, set data: D49, and press the PAUSE button of the adjustment remote commander.

- 1) Select page: 6, address: 01, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 2) Select page: 0, address: 01, and set data: 00.
- 3) Check that the steady shot operation is performed normally.



17. Angular Velocity Sensor Sensitivity Adjustment

 This adjustment is performed only when replacing the angular velocity sensor.

Although this adjustment need not be performed when the circuit is damaged, etc., check the operations.

Note down the sensitivity displayed on the angular velocity sensor
of the repair parts. At this time, note down also to which board it
was attached to.

Be sure to check because if attached incorrectly, the screen will vibrate up and down or left and right during hand-shake correction operations.

Precautions on the Parts Replacement

There are two types of repair parts.

Type A ENC03JA
Type B ENC03JB

Replace the broken sensor with a same type sensor. If replace with other type parts, the image will vibrate up and down or left and right during hand-shake correction operations. After replacing, readjust according to the adjusting method after replacement.

Precautions on Angular Velocity Sensor

The sensor incorporates a precision oscillator. Handle it with care as if it dropped, the balance of the oscillator will be disrupted and operations will not be performed properly.

| Adjustment Page | F | |
|--------------------|--------|--|
| Adjustment Address | 41, 42 | |

Note: The sensor sensitivity of SE450 and SE451 of the SE-75 board is written only on the repair parts.

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Read the sensor sensitivity written on SE450 of the SE-75 board, and take this as S450.
- 3) Read the sensor sensitivity written on SE451 of the SE-75 board, and take this as S₄₅₁.
- 4) Calculate D₄₁' and D₄₂' using the following equation (decimal calculation).

 $D_{41}' = 80 \times (0.60/S_{451})$

 $D_{42}' = 80 \times (0.60/S_{450})$

- 5) Convert D₄₁' and D₄₂' into hexadecimal digits, to obtain D₄₁ and D₄₂. (Round off decimal points)
- 6) Select page: F, address: 41, set data: D₄₁, and press the PAUSE button of the adjustment remote commander.
- 7) Select page: F, address: 42, set data: D₄₂, and press the PAUSE button of the adjustment remote commander.

- 1) Select page: 0, address: 01, and set data: 00.
- Check that the steady shot operations have been performed normally.

1-4. COLOR ELECTRONIC VIEWFINDER SYSTEM ADJUSTMENT

- Note 1: The back light (fluorescent tube) is driven by a high voltage AC power supply. Therefore, do not touch the back light holder to avoid electrical shock.
- **Note 2:** When replacing the LCD unit, be careful to prevent damages caused by static electricity.
- Note 3: Set the VF BRIGHT (Menu display) to the center.

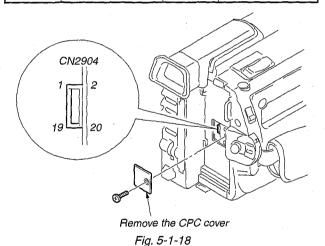
[Adjusting connector]

Most of the measuring points for adjusting the viewfinder system are concentrated in CN2904 of the VI-151 board.

Connect the Measuring Instruments via the CPC-8 jig (J-6082-388-A)

The following table shows the Pin No. and signal name of CN2904.

| Pin No. | Signal Name | Pin No. | Signal Name |
|---------|-------------|---------|--------------------|
| 1 | LANC SIG | 2 | EVF BL + |
| 3 | EVF BL - | 4 | EVF VG |
| 5 | EVF VCO | 6 | GND |
| 7 | PD VG | 8 | PD VCO |
| 9 | H START | 10 | XHD/PSIG |
| 11 | PANEL COM | 12 | TMS |
| 13 | TCK | 14 | TDI |
| 15 | TDO | 16 | GND |
| 17 | SWP | 18 | RF IN/LANC JACK IN |
| 19 | GND | 20 | RF MON |

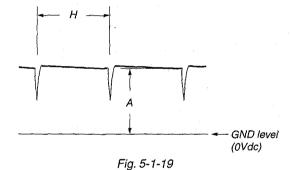


1. VCO Adjustment (VF-121 Board)

Set the VCO free-run frequency. If deviated, the EVF screen will be blurred.

| Mode | VTR stop |
|----------------------|--|
| Signal | Arbitrary |
| Measurement Point | Pin ⑤ of CN2904 (EVF VCO) on VI-151 board |
| Measuring Instrument | Oscilloscope (DC range) |
| Adjustment Page | D |
| Adjustment Address | 75 |
| Specified Value | $A = 1.7 \pm 0.2V$ |

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Check the GND level of the oscilloscope.
- 3) Select page: D, address: 75, change the data and set the VCO output voltage (A) to the specified value.
- 4) Press the PAUSE button of the adjustment remote commander.
- 5) Select page: 0, address: 01, and set data: 00.



5-21

2. Bright Adjustment (VF-121 Board)

Set the level of the VIDEO signal for driving the LCD to the specified value. If deviated, the screen image will be blackish or saturated (whitish).

| Mode | Camera |
|----------------------|---|
| Subject | Arbitrary |
| Measurement Point | Pin 4 of CN2904 (EVF VG) on VI-151 board |
| Measuring Instrument | Oscilloscope |
| Adjustment Page | D |
| Adjustment Address | 7A |
| Specified Value | $A = 7.25 \pm 0.05 \text{ V}$ |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 0C, set data: 20, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 3, address: 22, set data: 02, and press the PAUSE button of the adjustment remote commander.
- Select page: D, address: 7A, change the data and set the voltage

 (A) between the reversed waveform pedestal and non-reversed waveform pedestal to the specified value.

 (The data of address: 7A should be "54" to "D7".)
- 5) Press the PAUSE button of the adjustment remote commander.
- 6) Select page: 3, address: 22, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 7) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 8) Select page: 0, address: 01, and set data: 00.

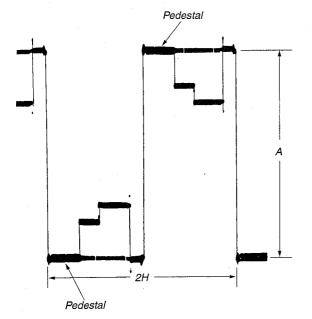


Fig. 5-1-20

3. Contrast Adjustment (VF-121 Board)

Set the level of the VIDEO signal for driving the LCD to the specified value. If deviated, the screen image will be blackish or saturated (whitish).

| Mode | Camera |
|----------------------|---|
| Subject | Arbitrary |
| Measurement Point | Pin ④ of CN2904 (EVF VG) on VI-151 board |
| Measuring Instrument | Oscilloscope |
| Adjustment Page | D |
| Adjustment Address | 7B |
| Specified Value | $A = 1.81 \pm 0.05 \text{ V}$ |

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: 3, address: 0C, set data: 20, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 3, address: 22, set data: 02, and press the PAUSE button of the adjustment remote commander.
- Select page: D, address: 7B, change the data and set the voltage

 (A) between the 100 IRE and 0 IRE (pedestal) to the specified value.
- 5) Press the PAUSE button of the adjustment remote commander.
- 6) Select page: 3, address: 22, set data: 00, and press the PAUSE button of the adjustment remote commander.
- Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 8) Select page: 0, address: 01, and set data: 00.

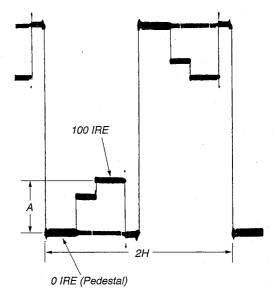


Fig. 5-1-21

4. Backlight Consumption Current Adjustment (VF-121 Board)

Set the backlight luminance and color temperature. If deviated, the image may become dark or bright.

| II deviated, the ming- | |
|------------------------|--|
| Mode | Camera |
| Subject | Arbitrary |
| Measurement Point | + Probe: Pin ② of CN2904 (EVF BL +) on VI-151 board - Probe: Pin ③ of CN2904 (EVF BL -) on VI-151 board |
| Measuring Instrument | Digital voltmeter |
| Adjustment Page | D |
| Adjustment Address | 76 |
| Specified Value | $A = 17.0 \pm 1.0 \text{ mVdc}$ |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 76, change the data and set the voltage difference (A) between Pin ② of CN2904 (EVF BL +) and Pin ③ of CN2904 (EVF BL -) to the specified value.
- 3) Press the PAUSE button of the adjustment remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

5. White Balance Adjustment (VF-121 Board)

Correct the white balance.

If deviated, the reproduction of the EVF screen may degenerate.

| Mode | Camera | |
|----------------------|---------------------------------------|--|
| Subject | Arbitrary | |
| Measurement Point | Check on EVF screen | |
| Measuring Instrument | Check on E vi selech | |
| Adjustment Page | D | |
| Adjustment Address | 71,72 | |
| Specified Value | The EVF screen should not be colored. | |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 0C, set data: 20, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 3, address: 22, set data: 0B, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: D, address: 71 and 72, set the data to the initial value.

Note: Press the PAUSE button of the adjustment remote commander each time to set the data.

| Address | 71 | 72 |
|---------|----|----|
| Data | 80 | 80 |

5) Check that the EVF screen is not colored. If colored, change the data of page: D, address: 71 and 72 so that the EVF screen is not colored.

Note: To write in the non-volatile memory (EEPROM), press the PAUSE button of the adjustment remote commander each time to set the data.

- 6) Select page: 3, address: 22, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 7) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 8) Select page: 0, address: 01, and set data: 00.

1-5. LCD SYSTEM ADJUSTMENT

Note 1: The back light (fluorescent tube) is driven by a high voltage AC power supply. Therefore, do not touch the back light holder to avoid electrical shock.

Note 2: When replacing the LCD unit, be careful to prevent damages caused by static electricity.

Note 3: Set the LCD BRIGHT to the center.
Set the LCD COLOR (Menu display) to the center.

[Adjusting connector]

Most of the measuring points for adjusting the LCD system are concentrated in CN2904 of the VI-151 board.

Connect the Measuring Instruments via the CPC-8 jig (J-6082-388-A).

The following table shows the Pin No. and signal name of CN2904.

| Pin No. | Signal Name | Pin No. | Signal Name |
|---------|-------------|---------|--------------------|
| 1 | LANC SIG | 2 | EVF BL + |
| 3 | EVF BL – | 4 | EVF VG |
| 5 | EVF VCO | 6 | GND |
| 7 | PD VG | 8 | PD VCO |
| 9 | H START | 10 | XHD/PSIG |
| 11 | PANEL COM | 12 | TMS |
| 13 | TCK | 14 | TDI |
| 15 | TDO | 16 | GND |
| 17 | SWP | 18 | RF IN/LANC JACK IN |
| 19 | GND | 20 | RF MON |

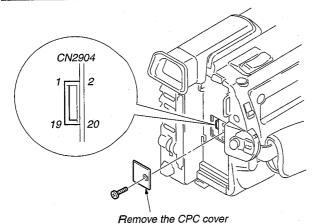


Fig. 5-1-22

1. VCO Adjustment (PD-101 Board)

Set the VCO free-run frequency. If deviated, the LCD screen will be blurred.

| oo olalioa. | |
|----------------------|--|
| Mode | VTR stop |
| Signal | arbitrary |
| Measurement Point | Pin ^(a) of CN2904 (H START) on VI-151 board |
| Measuring Instrument | Frequency counter |
| Adjustment Page | D |
| Adjustment Address | 84 |
| Specified Value | f = 15734 ± 30 Hz (NTSC) f = 15625 ± 30 Hz (PAL) |

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 0C, set data: 20, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 3, address: 22, set data: 03, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: D, address: 84, change the data and set the frequency (f) to the specified value.
- 5) Press the PAUSE button of the adjustment remote commander.
- 6) Select page: 3, address: 22, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 7) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 8) Select page: 0, address: 01, and set data: 00.

2. D range Adjustment (PD-101 Board)

Set the D range of the RGB decoder used to drive the LCD to the specified value. If deviated, the LCD screen will become blackish or saturated (whitish).

| or saturated (windsir). | |
|-------------------------|--|
| Mode | Camera |
| Subject | Arbitrary |
| Measurement Point | Pin ⑦ of CN2904 (PD VG) on VI-151 board |
| Measuring Instrument | Oscilloscope |
| Adjustment Page | D |
| Adjustment Address | 82 |
| Specified Value | $A = 3.56 \pm 0.05 \text{ V}$ |
| | |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 0C, set data: 20, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 3, address: 22, set data: 02, and press the PAUSE button of the adjustment remote commander.
- Select page: D, address: 82, change the data and set the voltage
 (A) between the reversed waveform pedestal and non-reversed waveform pedestal to the specified value.
- 5) Press the PAUSE button of the adjustment remote commander.
- 6) Select page: 3, address: 22, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 7) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 8) Select page: 0, address: 01, and set data: 00.

3. Bright Adjustment (PD-101 Board)

Set the level of the VIDEO signal for driving the LCD to the specified value. If deviated, the screen image will be blackish or saturated (whitish).

| Camera |
|--|
| Arbitrary |
| Pin ⑦ of CN2904 (PD VG) on VI-151 board |
| Oscilloscope |
| D |
| 8A |
| $A = 1.94 \pm 0.05 \text{ V}$ |
| |

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: 3, address: 0C, set data: 20, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 3, address: 22, set data: 02, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: 2, address: 0E, and set data: 40.
- 5) Select page: D, address: 8A, change the data and set the voltage (A) between the pedestal and GAMMA1 limiter level to the specified value. (The data of address: 8A should be "1E" to "A0".)
- 6) Press the PAUSE button of the adjustment remote commander.
- 7) Select page: 2, address: 0E, and set data: 00.
- 8) Select page: 3, address: 22, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 9) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 10) Select page: 0, address: 01, and set data: 00.

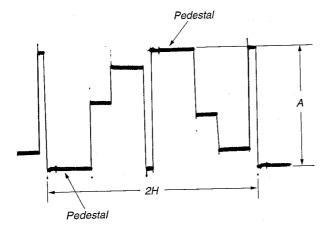


Fig. 5-1-23

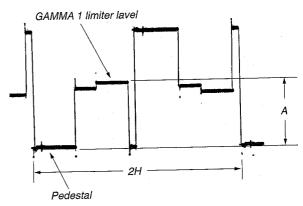


Fig. 5-1-24

4. Contrast Adjustment (PD-101 Board)

Set the level of the VIDEO signal for driving the LCD to the specified value. If deviated, the screen image will be blackish or saturated (whitish).

| Mode | Camera | |
|----------------------|--|--|
| Subject | Arbitrary | |
| Measurement Point | Pin ⑦ of CN2904 (PD VG) on VI-151 board | |
| Measuring Instrument | Oscilloscope | |
| Adjustment Page | D | |
| Adjustment Address | 8C | |
| Specified Value | $A = 3.04 \pm 0.05 \text{ V}$ | |

Adjusting method:

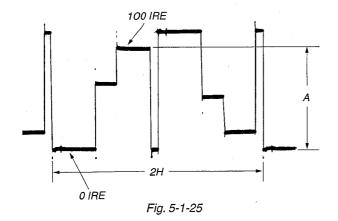
- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 0C, set data: 20, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 3, address: 22, set data: 02, and press the PAUSE button of the adjustment remote commander.
- Select page: D, address: 8C, change the data and set the voltage (A) between the 0 IRE (pedestal) and 100 IRE to the specified value.
- 5) Press the PAUSE button of the adjustment remote commander.
- 6) Select page: 3, address: 22, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 7) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 8) Select page: 0, address: 01, and set data: 00.

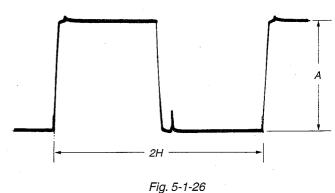
5. V-COM Level Adjustment (PD-101 Board)

Set the common electrode drive signal level of LCD to the specified value.

| Mode | Camera |
|----------------------|---|
| Subject | Arbitrary |
| Measurement Point | Pin ① of CN2904 (PANEL COM) on VI-151 board |
| Measuring Instrument | Oscilloscope |
| Adjustment Page | D |
| Adjustment Address | 83 |
| Specified Value | $A = 6.85 \pm 0.05 \text{ V}$ |

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 0C, set data: 20, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 3, address: 22, set data: 02, and press the PAUSE button of the adjustment remote commander.
- Select page: D, address: 83, change the data and set the PANEL COM signal level (A) to the specified value.
- 5) Press the PAUSE button of the adjustment remote commander.
- 6) Select page: 3, address: 22, set data: 00, and press the PAUSE button of the adjustment remote commander.
- Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 8) Select page: 0, address: 01, and set data: 00.





6. V-COM Adjustment (PD-101 Board)

Set the DC bias of the common electrode drive signal of LCD to the specified value.

If deviated, the LCD display will move, producing flicker and conspicuous vertical lines.

| conspicuous vertical files. | | |
|---|--|--|
| Camera | | |
| Arbitrary | | |
| Check on LCD display | | |
| Check on Del darpary | | |
| D | | |
| 85 | | |
| The brightness difference between the section A and section B is minimum. | | |
| | | |

Note: Perform "Bright Adjustment" and "Contrast Adjustment" before this adjustment.

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 0C, set data: 20, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 3, address: 22, set data: 0F, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: 2, address: 0E, and set data: 20.
- 5) Select page: D, address: 85, change the data so that the brightness of the section A and that of the section B is equal.
- 6) Press the PAUSE button of the adjustment remote commander.
- 7) Select page: 2, address: 0E, and set data: 00.
- 8) Select page: 3, address: 22, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 9) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 10) Select page: 0, address: 01, and set data: 00.

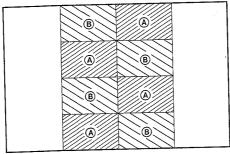


Fig. 5-1-27

7. White Balance Adjustment (PD-101 Board)

Correct the white balance.

If deviated, the LCD screen color cannot be reproduced.

| Mode | Camera | | |
|----------------------|---------------------------------------|--|--|
| Subject | Arbitrary | | |
| Measurement Point | Check on LCD display | | |
| Measuring Instrument | Check on ECD display | | |
| Adjustment Page | D | | |
| Adjustment Address | 80, 81 | | |
| Specified Value | The LCD screen should not be colored. | | |

Note: Check the white balance only when replacing the following parts. If necessary, adjust them.

- 1. LCD panel
- 2. Light induction plate
- 3. IC5502

Adjusting method:

- Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 0C, set data: 20, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 3, address: 22, set data: 0B, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: D, address: 80 and 81, set the data to the initial value.

Note: Press the PAUSE button of the adjustment remote commander each time to set the data.

| Address | 80 | 81 |
|---------|----|----|
| Data | A0 | 70 |

5) Check that the LCD screen is not colored. If colored, change the data of page: D, address: 80 and 81 so that the LCD screen is not colored.

Note: To write in the non-volatile memory (EEPROM), press the PAUSE button of the adjustment remote commander each time to set the data.

- 6) Select page: 3, address: 22, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 7) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 8) Select page: 0, address: 01, and set data: 00.

5-2. MECHANICAL SECTION ADJUSTMENT

2-1. PARTS REPLACEMENT AND PREPARATION FOR ADJUSTMENT

About Mode Selector II

2-1-1. Outline

This unit is a mechanism drive tool which supplements the maintenance of each mechanism deck. Its functions are described below.

1. Manual test

A mode which drives the motor only while the switch is ON. It enables the operator to control the motor as desired.

2. Step test

A mode which drives the motor until the current condition detected by the sensor changes to another condition. It enables the movements made by the motor in each operation to be controlled while being checked.

3. Auto test

A mode that checks if the mechanism operates normally according to the condition shift table recorded in the unit for each mechanism deck. All the conditions of the decks are checked through a series of operations.

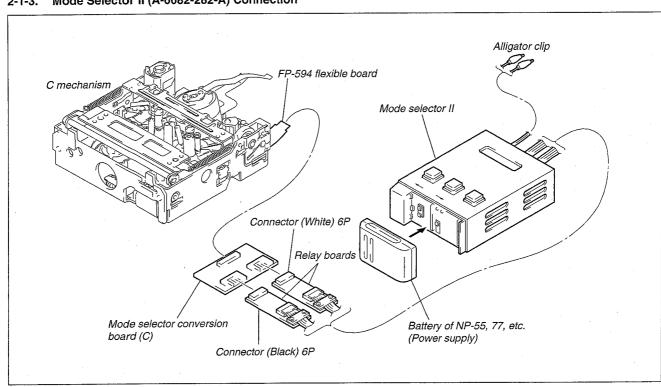
An error message is displayed if incorrect shifts and conditions are detected and operations are stopped.

2-1-2. Mechanism Condition (Position) Shifting Order List

After selecting the mechanism deck, select one of the two test modes other than the auto test, and press the RVS and FF button to specify the mechanism state (position).

| | | MD n | ame | | C mechanism | |
|------|---|------|-----------------|---|-------------|--|
| Code | | | Cinecilariisiii | | | |
| Α | В | С | D | | | |
| 1 | 1 | 1 | 0 | 1 | EJECT | |
| 1 | 0 | 1 | 0 | 2 | ULE | |
| 1 | 0 | 1 | 1 | 3 | SR | |
| 1 | 0 | 0 | 1 | 4 | HL | |
| 0 | 1 | 1 | 1 | 5 | LE | |
| 0 | 0 | 1 | 1 | 6 | STOP | |
| 1 | 1 | 0 | 1 | 7 | RP | |
| 1 | 1 | 0 | 0 | 8 | REW | |

2-1-3. Mode Selector II (A-6082-282-A) Connection



2-1-4. The Mechanical Adjustment Requires the Following Tools

- 1) Cleaning fluid (Y-2031-001-0)
- 2) Wiping cloth (7-741-900-53)
- 3) Super fine applicator (Made by NIPPON APPLICATOR (P752D))
- 4) Mirror (Small oval type) (J-6082-840-A)
- 5) Screwdriver for tape path (J-6082-026-A)
- 6) Torque driver (J-9049-330-A)
- 7) TG1 adjustment jig (FWD position adjustment) (J-6082-420-A)
- 8) Mode selector conversion board (C) (J-6082-417-A)
- 9) Tracking tape (XH2-1A1) (NTSC/PAL) (8-967-999-03)
- 10) Mini DV torque cassette (J-6082-360-A)
- 11) Mode selector II (J-6082-282-A)
- 12) Mode selector II ROM (Corresponds to C mechanism) (J-6082-314-D)
- 13) Bending stick (J-6082-419-A)

2-2. PARTS REPLACEMENT

Precautions

For details on removing the cabinet and board, refer to "2. DISASSEMBLY". For details on the replacement of mechanism parts (removal or attaching), refer to the respective flowcharts, and perform the procedure given.

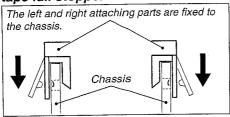
2-2-1. Tape Fall Stopper, HC Roller and HC Arm

Removing method: Spread out the left and right attaching parts

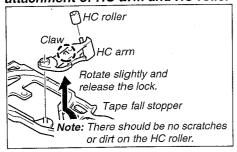
and remove them upwards.

Attaching method: Refer to the Details diagram.

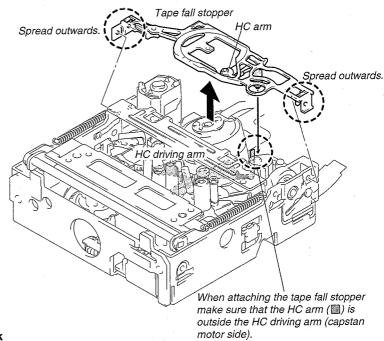
Details diagram on attachment of tape fall stopper



Details diagram on removal and attachment of HC arm and HC roller



2-2-2. Drum Assembly and Drum Base Block Assembly



Remove the

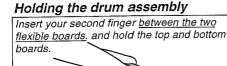
"2-2-1. Tape Fall Stopper"

Removing method: Remove in the order of ①→②→③→④.

Attaching method: Attach in the order of ④→③→②→①.

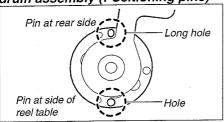
Note: Tighten the screws in the order of ④, ⑤, and ⑥.)

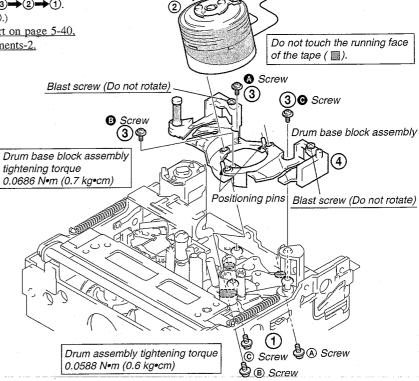
After attaching all the parts, refer to the flowchart on page 5-40, and perform the adjustments from Starting adjustments-2.



Note: Do not touch the running face of the drum assembly.

Details diagram on attachment of drum assembly (Positioning pins)



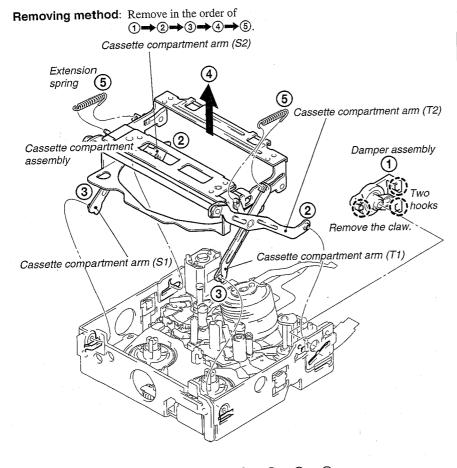


Drum assembly

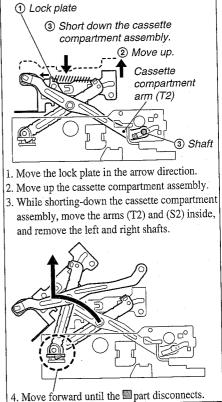
2-2-3. Damper Assembly, Cassette Compartment Assembly and Extension Spring

Remove the





Details diagram on removal of cassette compartment assembly



Details diagram on attachment of

wo hooks

Shafts

Note: To attach, hook rear hook first.

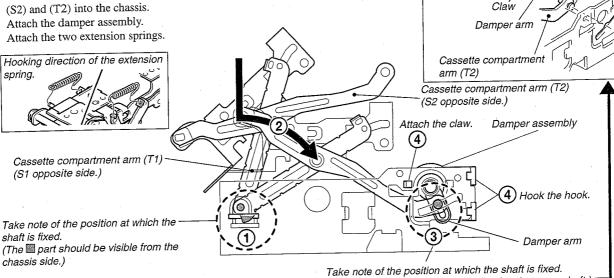
damper assembly

Damper assembly

(The damper arm should also be fixed to the same shaft.)

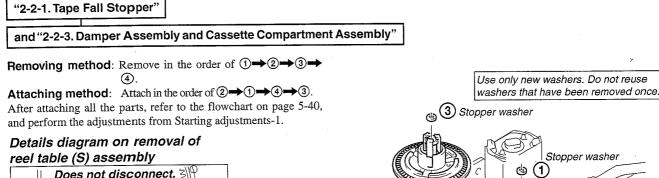
Attaching method: Attach in the order of ①→②→③→④. Note: Be careful not to deform the cassette compartment.

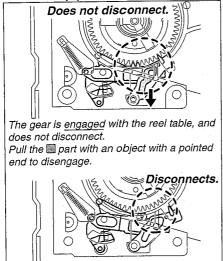
- Insert the left and right shafts of the cassette compartment arms (S1) and (T1) into the chassis.
- Push down the cassette compartment assembly in the direction 2.
- Insert the left and right shafts of the cassette compartment arms (S2) and (T2) into the chassis.

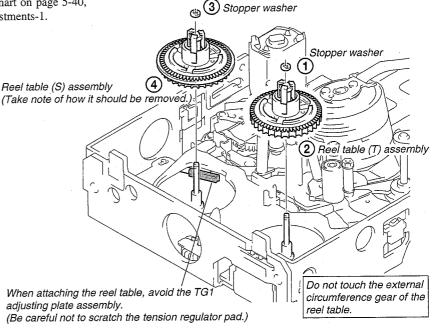


2-2-4. Reel Table (S) / Reel Table (T) Assembly

Remove the

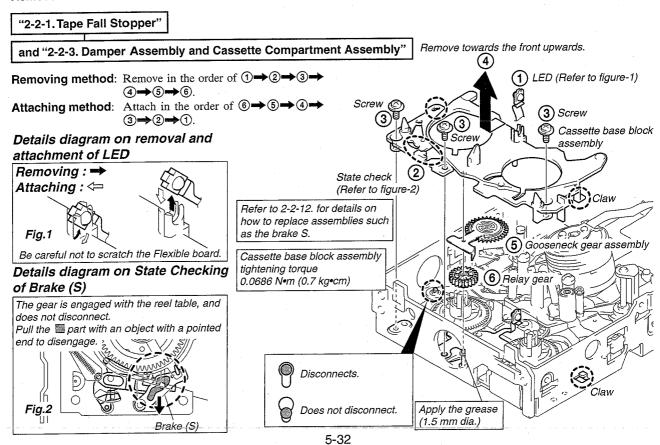




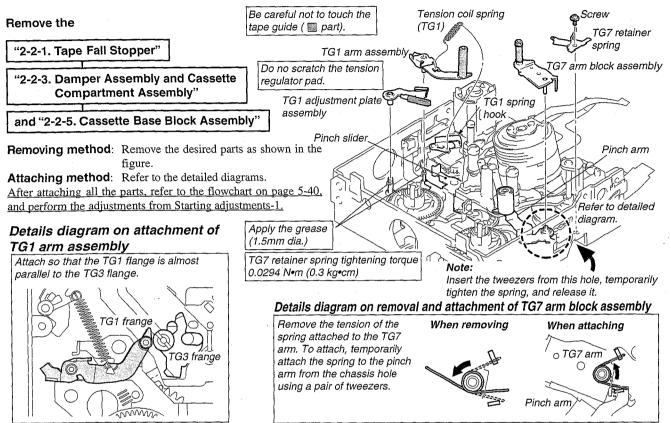


2-2-5. Cassette Base Block Assembly, Gooseneck Gear Assembly and Relay Gear

Remove the

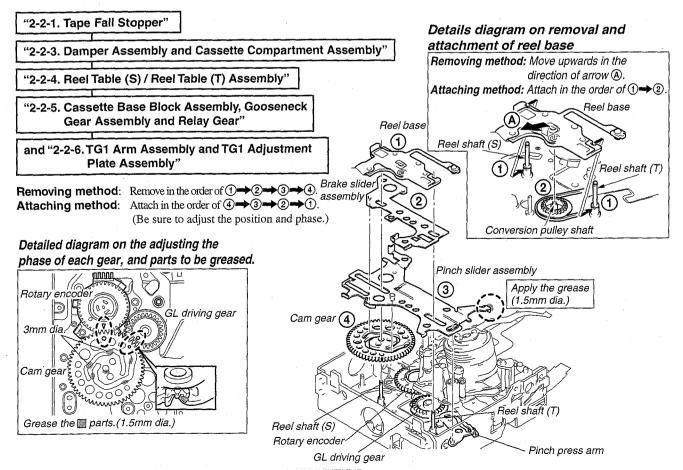


2-2-6. TG1 Adjustment Plate Assembly, Tension Coil Spring (TG1), TG1 Arm Assembly, TG7 Retainer Spring and TG7 Arm Block Assembly



2-2-7. Brake Slider Assembly, Pinch Slider Assembly and Cam Gear

Remove the



Screw tightening torque tolerance. 0.0098 N.m (0.1 kg.cm)

2-2-8. Pinch Arm Assembly, Torsion Spring (TG7LD), Pinch Press Arm and Eject Arm

Pinch arm assembly

Torsion spring

(TG7LD)

Pinch press arm

Eject arm

Remove the

"2-2-1. Tape Fall Stopper"

"2-2-3. Damper Assembly and Cassette Compartment Assembly"

"2-2-4. Reel Table (S) / Reel Table (T) Assembly"

"2-2-5. Cassette Base Block Assembly, Gooseneck Gear Assembly and Relay Gear"

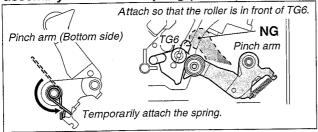
"2-2-6. TG1 Arm Assembly, TG1 Adjustment Plate Assembly and TG7 Arm Block Assembly"

and "2-2-7. Brake Slider Assembly and Pinch Slider Assembly"

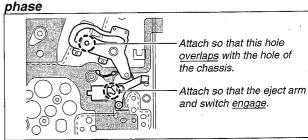
Removing method: Remove in the order of $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$. Attaching method: Attach in the order of $4 \rightarrow 3 \rightarrow 2 \rightarrow 1$.

(Be sure to adjust the position and phase.)

Details diagram on attachment of pinch arm assembly and torsion spring (TG7LD)



Details diagram on adjustment or position and



2-2-9. GL Block Assembly, GL Driving Gear and HC Driving Arm

Remove the

"2-2-1. Tape Fall Stopper"

"2-2-3. Damper Assembly and Cassette Compartment Assembly"

"2-2-2. Drum Assembly and Drum Base Block Assembly"

"2-2-4. Reel Table (S) / Reel Table (T) Assembly"

"2-2-5. Cassette Base Block Assembly, Gooseneck Gear Assembly and Relay Gear"

"2-2-6. TG1 Arm Assembly, TG1 Adjustment Plate Assembly and TG7 Arm Block Assembly"

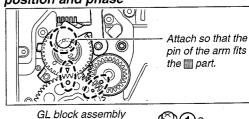
"2-2-7. Brake Slider Assembly, Pinch Slider Assembly and Cam Gear"

and "2-2-8. Pinch Arm Assembly"

(Be sure to adjust the position and phase.)

After attaching all the parts, refer to the flowchart on page 5-40, and perform the adjustments from Starting adjustments-1.

Details diagram on adjustment of position and phase



When attaching the GL block assembly, each coaster must be in contact with the end of the guide rail.

Be careful not to touch the tape guide (part).

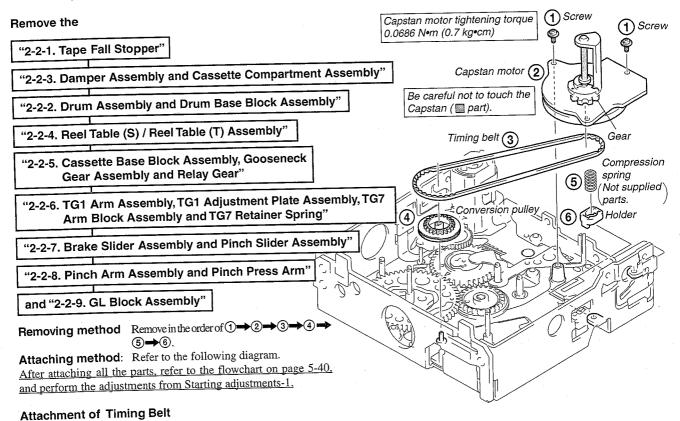


Refer to 3-13. for details on how to replace assemblies such as the guide rail. GL block assembly tightening torque 0.0686 N•m (0.7 kg•cm)

1)Screw

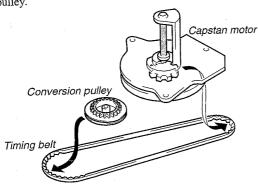
Guide rail

2-2-10. Capstan Motor, Conversion Pulley, Timing Belt and Holder



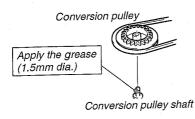
- 1. Refer to "Removing method", and attach the compression
- spring (TG7) and holder to the chassis.Attach the timing belt to the capstan motor and the conversion pulley.

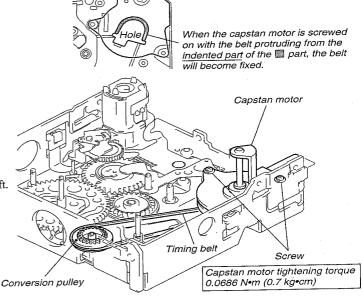
5. After attaching, pull the timing belt lightly, and check that the movements of the conversion pulley and gear at the back of the capstan motor are linked.



3. Attach the conversion pulley to the conversion pulley shaft. Attach the capstan motor to the chassis.

4. Secure the capstan motor with the screw.





Screw tightening torque tolerance. 0.0098 N.m (0.1 kg.cm)

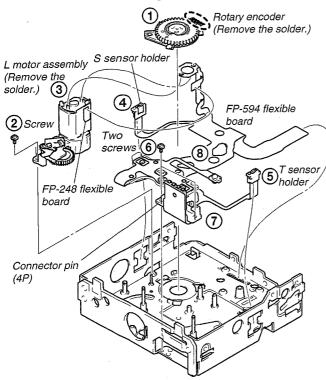
2-2-11. L Motor Block Assembly and FP-594 Flexible Board

First, remove

all parts from 2-2-1 to 2-2-10

Removing method: Remove in the order of $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 6 \rightarrow 7 \rightarrow 8$.

(For details on how to remove each part, refer to the detailed diagram.)



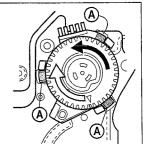
Detailed diagram on removal and attachment of rotary encoder

Removing method:

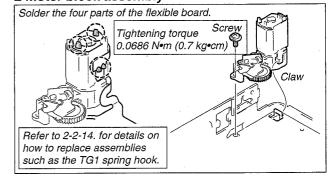
Remove the solder, and rotate the rotary encoder in the direction. (The three parts of part (A) should be visible.)

Attaching method:

Rotate the rotary encoder in the in the circuit. (The three parts of part (a) should be hidden.) And then solder.



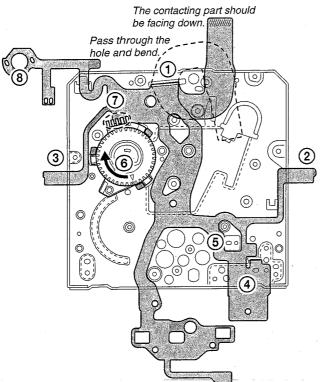
Detailed diagram on removal and attachment of L motor block assembly



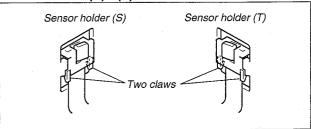
Attaching method:

Refer to the following diagram, for attaching the FP-594 flexible board, and attaching the parts in the order of ①→②→③→④→⑤→⑥→⑦→⑥.

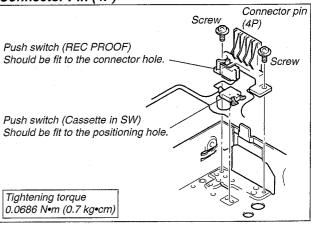
(For attaching each part, refer to each detailed diagram.)



Detailed diagram on removal and attachment of sensor holder (S) / (T)

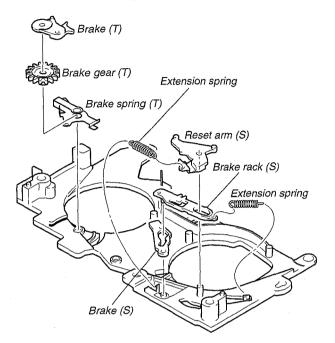


Detailed diagram on removal and attachment of Connector Pin (4P)

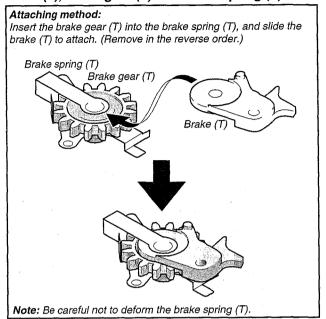


2-2-12. Reset Arm (S), Brake (S), Brake Rack (S), Brake (T), Brake Gear (T), Brake Spring (T) and Extension Spring

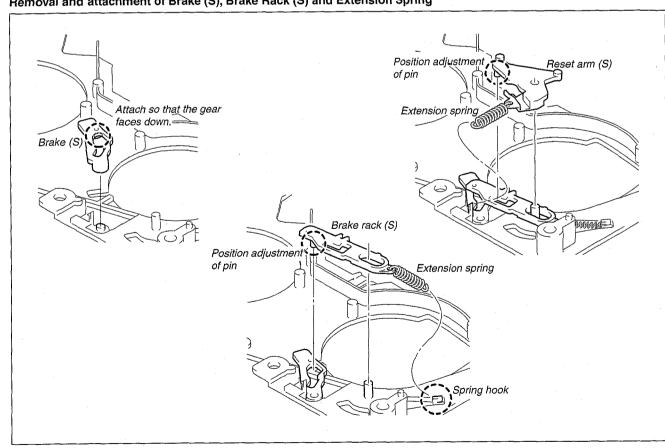
Removal or attaching method



Detailed diagram on removal and attachment of brake (T), brake gear (T) and brake spring (T)



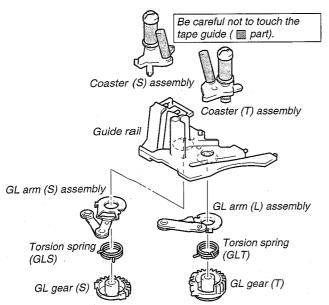
Removal and attachment of Brake (S), Brake Rack (S) and Extension Spring



2-2-13. Coaster (S) / (T) Assembly, GL Arm (S) / (T) Assembly, Guide Rail, GL Gear (S) / (T) and Torsion Spring (GLS) / (GLT)

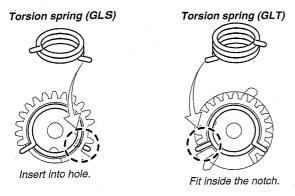
Removing method

• Refer to the detailed diagram on the right, and remove each part.

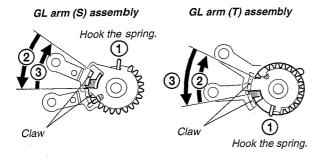


Assembling the GL Block Assembly

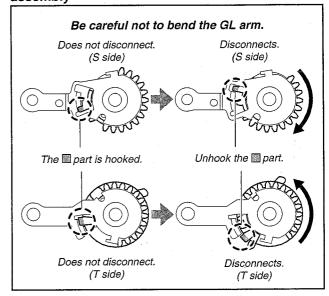
Attach the tension coil spring to each gear.
 To differentiate the S side and T side, the side with more coils is the T side. The S side has less coils. Face the ends of the spring towards you, the tip of the coil (lower side) is positioned at the right for the S side and at the left for the T side.



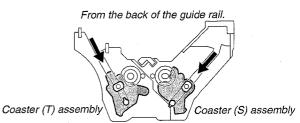
2. Hook the spring to the GL arm, and rotate in the →② direction until the claw of the GL arm passes over the ■ part, and the ■ becomes visible. When the GL arm is completely inserted, the GL arm claw will pass below the ■ part by the tension of the spring (→③).



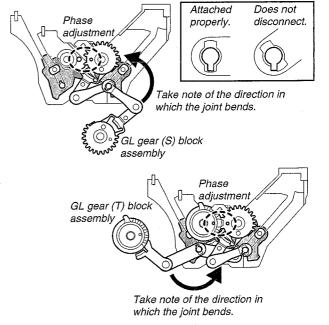
Detailed diagram on removal of GL arm (S) / (T) assembly



3. Attach the respective coaster assemblies.



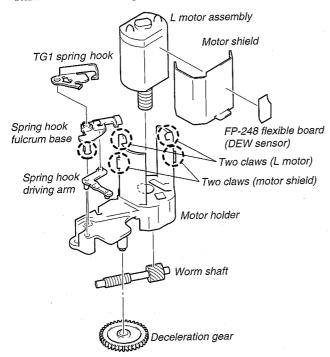
 Attach the GL gear block assembly in the order of the S and T sides.



2-2-14. L Motor Assembly, Motor Shield, FP-248 Flexible Board, TG1 Spring Hook, Spring Hook Fulcrum Base, Spring Hook Driving Arm, Worm Shaft, Deceleration Gear and Motor Holder

Removing method

• Refer to the detailed diagram on the right, and remove each part.



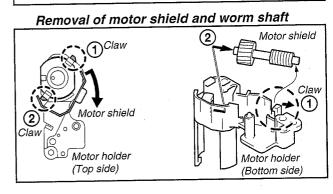
Removal of TG1 spring hook

Rotate to the left slightly opened.

Unhooks.

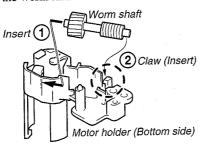
Does not disconnect.

Disconnects here.

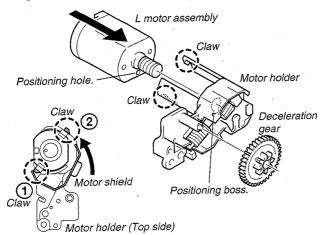


Attaching method

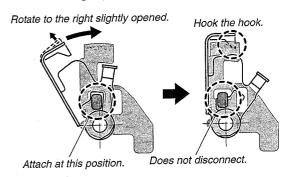
1. Attach the worm shaft.



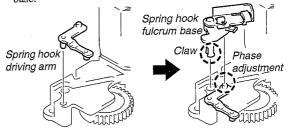
Attach the L motor assembly, motor shield and deceleration gear.

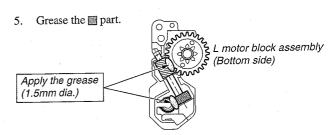


3. Attach the TG1 spring hook to the spring hook fulcrum base.



 Attach the spring hook driving arm and spring hook fulcrum hase.

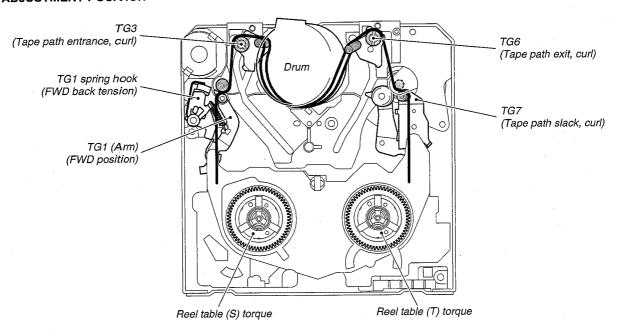




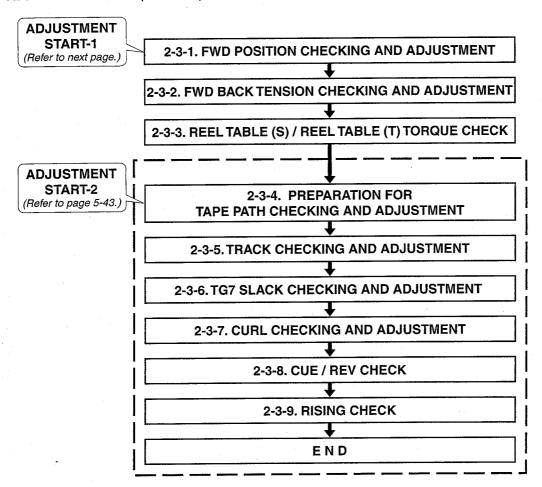
2-3. CHECK AND ADJUSTMENT

• When the parts of the tape path (tape guide and reel table, etc.) have been removed or parts have been replaced, adjust the following parts and according to the flowchart below.

• ADJUSTMENT POSITION



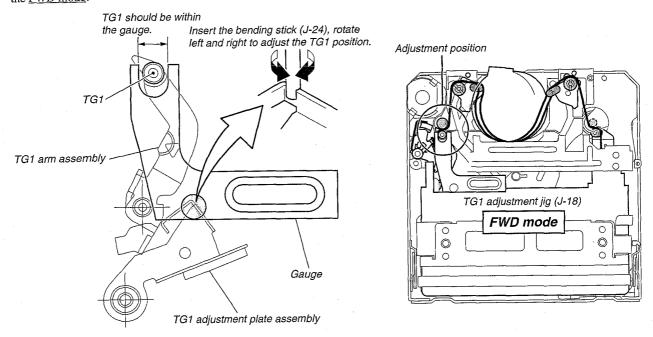
• ADJUSTMENT ORDER (Flowchart)



2-3-1. FWD Position Checking and Adjustment

· Checking / adjusting method

Bend the TG1 adjustment plate with the bending stick (J-24) so that the TG1 flange external circumference, including fluctuation, is within the gauge range while the TG1 adjustment jig (J-18) runs in the FWD mode.



2-3-2. FWD Back Tension Checking and Adjustment

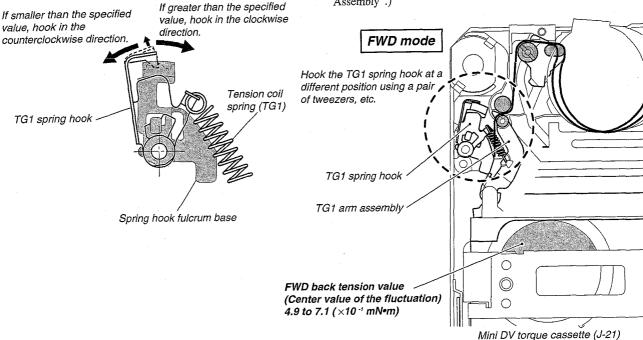
Checking / adjusting method

Check the gauge value (reel table (S) side) of the mini DV torque cassette (J-21) in the <u>FWD mode</u>. Adjust the position of the TG1 spring hook so that the gauge value satisfies the specified value. If the specified value is not satisfied, hook the TG1 spring hook claw to the middle position, and check that the FWD position is correct. If not correct, adjust the FWD position again, and check the FWD back tension again.

If the FWD position is correct but the specified value for the FWD back tension is not satisfied, replace the tension coil spring (TG1), and perform this adjustment again.

(For details on how to replace, refer to "2-2-6. Tension coil spring (TG1)".)

If the fluctuations of the FWD back tension are great and the specified value is not satisfied, replace the reel table S assembly. (For details on how to replace, refer to "2-2-4. Reel Table (S) Assembly".)



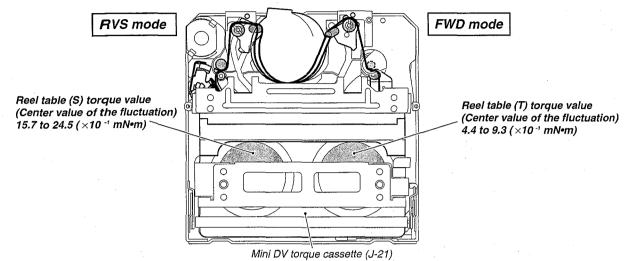
2-2-3. Reel Table (S) / Reel Table (T) Torque Check

• Checking the Reel table (S) side

Check the gauge value (reel table (S) side) of the mini DV torque cassette (J-21) in the <u>RVS mode</u>.

• Checking the Reel table (T) side

Check the gauge value (reel table (T) side) of the mini DV torque cassette (J-21) in the <u>FWD mode</u>.



If the specification is not satisfied, check the 4-1 FWD position, and if no problems, replace the respective reel tables, and check again.
(For details on how to replace, refer to "2-2-4. Reel Table (S) / Reel Table (T) Assemblies".)

Preparation for Tape Path Checking and 2-3-4. Adjustment

Preparations before adjustment 1 (Connection and setting)

1. Clean the tape running side. (Refer to "2-4-2. Cleaning of Tape Path System".)

Connect the adjustment remote commander (J-5) to the LANC jack.



Turn the HOLD switch of the adjustment remote commander to the ON position.

Connect an oscilloscope to VI-151 board CN2904 via the CPC-8 jig (J-6082-388-A).

Channel 1: VI-151 board, CN2904 Pin @ (Note) External trigger: VI-151 board, CN2904 Pin 19

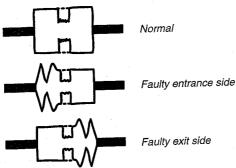
Note: Connect a 75 Ω resistor between pins @ of CN2904 and 1

75 Ω resistor (Parts code: 1-247-804-11)

CN2904 of VI-151 board

| CN2904 of VI-151 board | | | | | |
|------------------------|-------------|---------|--------------------|--|--|
| Pin No. | Signal Name | Pin No. | Signal Name | | |
| 1 | LANC SIG | 2 | EVF BL + | | |
| 3 | EVF BL - | 4 | EVF VG | | |
| 5 | EVF VCO | 6 | GND | | |
| 7 | PD VG | 8 | PD VCO | | |
| 9 | H START | 10 | XHD/PSIG | | |
| 11 | PANEL COM | 12 | TMS | | |
| 13 | TCK | 14 | TDI | | |
| 15 | TDO | 16 | GND | | |
| 17 | SWP | 18 | RF IN/LANC JACK IN | | |
| 19 | GND | 20 | RF MON | | |
| 19 | OND | | | | |

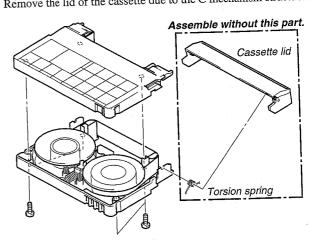
- 5. Playback the alignment tape for tracking (J-20). (XH2-1 exclusive)
- 6. Select page: 3, address: 33, and set data: 08.
- Select page: 3, address: 26, and set data: 31.
- Check the states at the entrance and exit of the RF waveform. If not flat at either side, perform the adjustments from "Flowchart Adjustment start-2" on page 5-40.
- After completing the adjustment, perform "Procedure after checking operations".

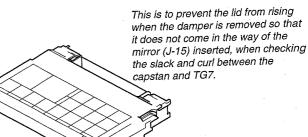


Procedure after operations

- Connect the adjustment remote commander to the LANC jack and set the HOLD switch to the ON position.
- Select page: 3, address: 26, and set data: 00.
- Select page: 3, address: 33, and set data: 00.
- Disconnect the power of the unit.

 Preparations before adjustment 2 (Preparing an exclusive tracking tape (J-20)) Remove the lid of the cassette due to the C mechanism structure.





Exclusive tracking tape

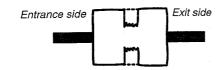
2-3-5. Track Checking and Adjustment

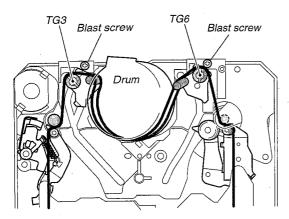
· Checking / adjusting method

Run the tracking tape (J-20) in the <u>PLAYBACK mode</u>, and check that the RF waveform is flat at both the entrance and exit.



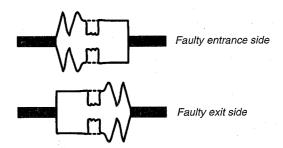
Normal waveform





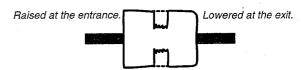
• If not flat

If the waveform at the entrance is bad, rotate TG3. If that at the exit is bad, rotate TG6 to flatten the waveform.



Tips for adjustment

The tape path waveform at the entrance and exit should both be flat, or that at the <u>entrance should be slightly raised</u> and that at the <u>exit should be lowered</u>. If that at the entrance is slightly lowered especially, problems such as sound drop may occur.



If the waveform does not become flat even if the guides are rotated at the entrance and exit, the characteristics may be faulty of the tracking tape with time. Check again using a new tracking tape. If the waveform still does not become flat, the coaster assembly and drum base block assembly may be faulty.

(For details on how to replace, refer to "2-2-2. Drum Base Block Assembly or 2-2-9. GL Block Assembly".)

2-3-6. TG7 Slack Checking and Adjustment

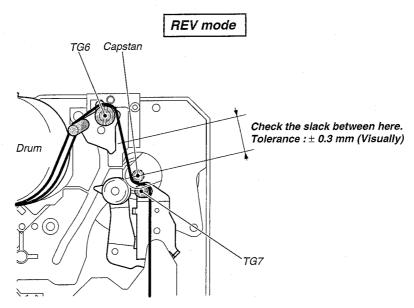
· Checking / adjusting method

Run the tracking tape (J-20) in the <u>REV mode</u>, and visually check from right above the slack between the capstan and TG6. If the slack is great, rotate TG7 to satisfy the specified value.

• If the slack occurs

If the <u>slack</u> can not be corrected, the TG7 arm block assembly may be faulty.

(For details on how to replace, refer to "2-2-6. TG7 Arm Block Assembly".)



2-3-7. Curl Checking and Adjustment

· Checking / adjusting method

Run the tracking tape (J-20) (exclusive) in the <u>CUE mode</u> or <u>REV mode</u>, and check that the tape runs along each flange.

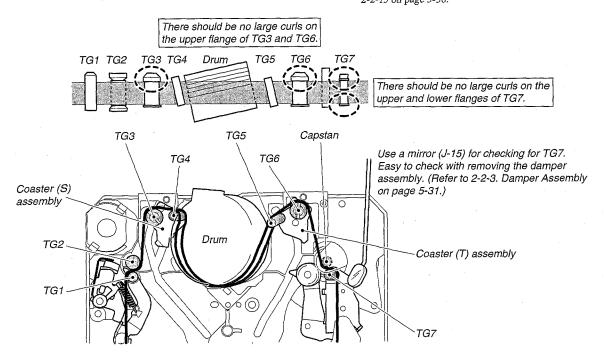
Also check that there are no <u>large curls</u> on each tape guide.

• If the curl is large or there are clearances

If the TG3 curl is large or <u>clearances</u> exist, replace the coaster (S) assembly. If the TG6 curl is large, or <u>clearances</u> exist, replace the coaster (T) assembly. If curls or <u>clearances</u> exist on the TG7, rotate TG7 and adjust its height.

Note: Be careful not to rotate TG7 excessively.

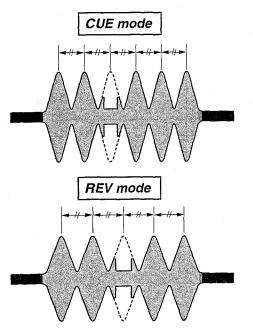
For details on how to replace the coaster (S) / (T) assembly, refer to 2-2-13 on page 5-38.



2-3-8. CUE / REV Check

Checking method

Run the tracking tape (J-20) in the <u>CUE mode</u> or <u>REV mode</u>, and check that the intervals of the waveform peaks are consistent.



If not even

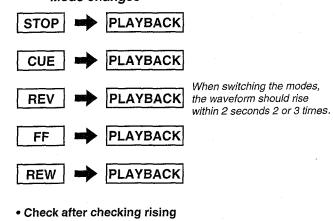
If the waveform peaks are not even, perform "Tracking adjustment" again.

2-3-9. Rising Check

Checking method

Check that when the tracking tape (J-20) is switched from the <u>STOP</u>. <u>CUE</u>, <u>REV</u>, <u>FF</u>, <u>REW</u> <u>modes</u> to the <u>PLAYBACK</u> <u>mode</u>, the waveform rises horizontally <u>within 2 seconds</u>. Perform this 2 or 3 times.

Mode changes



- Check that the tape loads and unloads smoothly.
- Play a self-recorded or already recorded tape, and check that the sound and images are normal.

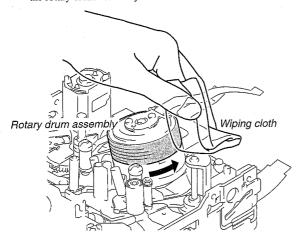
2-4. PERIODIC CHECK

Carry out the following maintenance and periodic checks not only
to fully display the functions and performance of the set, but also
for the equipment and tape. After repairing, service the set as
follows, regardless of the length of use.

2-4-1. Cleaning of Rotary Drum Assembly

1. Press a wiping cloth (J-13) moistened with cleaning fluid (J-12) against the rotary drum assembly gently, and clean it while rotating the rotary drum assembly slowly with your finger in the counterclockwise direction.

Note: Do not rotate the motor on power or rotate the rotary drum assembly in the clockwise direction with your finger. The head tip will also be damaged if the wiping cloth is moved perpendicularly against it. Therefore, be sure to follow the above instructions when cleaning the rotary drum assembly.

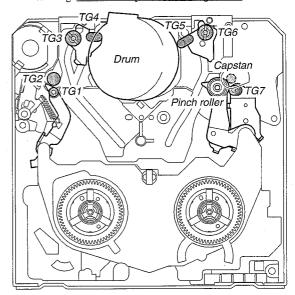


2-4-2. Cleaning of Tape Path System

 Clean the tape path systems (TG1 to TG7 and capstan) and the lower drum using a super fine applicator (J-14) moistened with cleaning fluid.

Note 1: Make sure that no oil or grease of the link mechanisms sticks to the super fine applicator (J-14).

Note 2: Do not use a applicator moistened with alcohol to the other guide cleaning. But clean the pinch roller using alcohol.



2-4-3. Periodic Checks

| Location of Maintenance and Check | | Hours of Use (H) | | | | | | | | | | Remarks |
|-----------------------------------|---|------------------|------|------|------|------|------|------|------|------|------|------------------------------------|
| | | 500 | 1000 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | Hemarks |
| | Cleaning of tape path surface | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0. | 0 | 0 | |
| | Cleaning and degaussing of rotary drum assembly | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Be careful of the oil. |
| Driving system | Timing belt | | | - | | | | | | | | Make sure that no |
| | Capstan (Bearing) | | | _ | | | | | | _ | | oil gets on the tape path surface. |
| | Loading motor | _ | | _ | | _ | | _ | | | | X-3948-346-1 |
| Performance Confirmation | Abnormal noise | | | | | | | | | | | |
| | Back tension measurement | | | _ | | _ | | | | | | |
| | Brake system | | | | | | | _ | | _ | | |
| | FWD/RVS torque measurement | | | | | | | _ | | _ | | |

Note 1: When overhauling, refer to the checks above and replace parts.

Note 2: Greasing

Always use the specified grease. If the viscosity differs, various problems may occur.

(Use SG-941 for all parts of the C mechanism.)

Check the quantity of grease when installing the parts which is needed to apply the grease.

• FLOIL (SG-941): Part No. 7-662-001-39

O: Cleaning □: Confirmation

5-3. VIDEO SECTION ADJUSTMENTS

NTSC model: DSR-PD100 PAL model: DSR-PD100P

PREPARATIONS BEFORE ADJUSTMENTS

Use the following measuring instruments for video section adjustments.

3-1-1. Equipment Required

- 1) TV monitor
- Oscilloscope (dual-phenomenon, band above 30 MHz with delay mode) (Unless specified otherwise, use a 10:1 probe.)
- 3) Frequency counter
- 4) Pattern generator with video output terminal.
- 5) Digital voltmeter
- 6) Audio generator
- 7) Audio level meter
- 8) Audio distortion meter
- Audio attenuator
- 10) Regulated power supply
- 11) Alignment tapes
 - Tracking standard (XH2-1) Parts code: 8-967-997-01
 - SW/OL standard (XH2-3)
 - Parts code: 8-967-997-11
 - Audio operation check for NTSC (XH5-3)
 - Parts code: 8-967-997-51
 - System operation check for NTSC (XH5-5)
 - Parts code: 8-967-997-61 • BIST check for NTSC (XH5-6)
 - Parts code: 8-967-997-71
 - Audio operation check for PAL (XH5-3P)
 - Parts code: 8-967-997-55
 - System operation check for PAL (XH5-5P)
 - Parts code: 8-967-997-66
 - BIST check for PAL (XH5-6P)
 - Parts code: 8-967-997-76
- 12) Adjustment remote commander (J-6082-053-B)
- 13) CPC-8 jig (J-6082-388-A)
- 14) Extension cable (60P, 0.5 mm)
 - For extension between the VC-208 board (CN761) and the CK-80 board (CN7208) (J-6082-431-A)
- 15) Extension cable (100P, 0.5 mm)
 - For extension between the VC-208 board (CN900) and the VI-151 board (CN2901) (J-6082-432-A)
- 16) Extension cable (39P, 0,3 mm)
- For extension between the JK-163 board (CN7102) and the VI-151 board (CN2903) (J-6082-433-A)

3-1-2. Precautions on Adjusting

- The adjustments of this unit are performed in the VTR mode or camera mode.
 - To set to the VTR mode, set the power switch to "VTR" (or "PLAYER") or set the "Forced VTR Power ON mode" using the adjustment remote commander (Note 1).
 - To set to the Camera mode, set the power switch to "CAMERA" or set the "Forced Camera Power ON mode" using the adjustment remote commander (Note 2).
 - After completing adjustments, be sure to exit the "Forced VTR Power ON Mode" or "Forced Camera Power ON Mode". (Note 3)
- 2) The front panel block (MA-333 board, microphone unit, focus ring, focus switch) need not be connected except during "Battery End Adjustment", and "Audio adjustments". To remove, disconnect the following connectors.
 - 1. MA-333 board CN7304 (26P, 0.5 mm)
- 3) The viewfinder (VF-121 board, LB-55 board) and upper cabinet (LCD window, ED-48 board) are need not be connected except during "Battery End Adjustment". To remove them, disconnect the following connectors.
 - 1. VI-151 board CN2905 (20P, 0.5 mm)
 - 2. CK-80 board CN7207 (24P, 0.5 mm)
 - 3. CK-80 board CN7203 (5P, 0.5 mm)
- 4) Cabinet (R) (Camera function switch (CK-80 board), LCD block, memory card slot) need not be connected except during "Battery End Adjustment". But removing the cabinet (R) (removing the VI-151 board CN2906) means removing the lithium 3V power supply (BT7200), data such as date, time, user-set menus will be lost. After completing adjustments, reset these data. If the cabinet (R) has been removed, the self-diagnosis data, data on history of use (total drum rotation time etc.) will be lost. Before removing, note down the self-diagnosis data and the data on the history use (data of page: 2, address: A2 to AA). (Refer to "SELF-DIAGNOSIS FUNCTION" for the self-diagnosis data, and to "5-4.Service Mode" for the data on the history use.)
 - To remove the cabinet (R) and DC IN jack, disconnect the following connectors.
 - 1. VI-151 board CN2906 (60P, 0.5 mm)
 - 2. VC-208 board CN761 (60P, 0.5 mm)
 - 3. VI-151 board CN3201 (3P, 1.0 mm)
- 5) For extension between the memory card slot(CK-80 board CN7208) and VC-208 board (CN761), use the following extension cable.
 - J-6082-431-A (60P, 0.5 mm)
- 6) The lens block (CD-202 board) need not be connected except during "Battery End Adjustment". To remove, disconnect the following connectors.
 - 1. VC-208 board CN200 (40P, 0.5 mm)
 - 2. VC-208 board CN351 (8P, 0.5 mm)
 - 3. VC-208 board CN500 (26P, 0.5 mm)
- 7) SE-75 board need not be connected except during "Battery End Adjustment". To remove, disconnect the following connectors. VC-208 board CN400 (6P, 0.5 mm)
- When opening the VC-208 board, use the following extension cable between the VC-208 board CN900 and VI-151 board CN2901.
 - J-6082-432-A (100P, 0.5 mm)
- When opening the cabinet (L), use the following extension cable between the JK-163 board CN7102 and VI-151 board CN2903.
 J-6082-433-A (39P, 0.3 mm)

- Note 1: Setting the "Forced VTR Power ON" mode (VTR mode)
 - 1) Select page: 0, address: 01, and set data: 01.
 - 2) Select page: D, address: 10, set data: 02, and press the PAUSE button of the adjustment remote commander.

 The above procedure will enable the VTR power to be turned on with the power switch block (FK-4880) removed.

 After completing adjustments, be sure to exit the "Forced Power ON mode".
- Note 2: Setting the "Forced Camera Power ON" mode (Camera mode)
 - 1) Select page: 0, address: 01, and set data: 01.
 - 2) Select page: D, address: 10, set data: 01, and press the PAUSE button of the adjustment remote commander.

 The above procedure will enable the camera power to be turned on with the power switch block (FK-4880) removed.

 After completing adjustments, be sure to exit the "Forced Power
- Note 3: Setting the "Forced Memory Power ON" mode (Memory mode)
 - 1) Select page: 0, address: 01, and set data: 01.
 - 2) Select page: D, address: 10, set data: 05, and press the PAUSE button of the adjustment remote commander.

 The above procedure will enable the memory power to be turned on with the power switch block (FK-4880) removed.

 After completing adjustments, be sure to exit the "Forced Power ON mode".
- Note 4: Exiting the "Forced Power ON" mode
 - 1) Select page: 0, address: 01, and set data: 01.
 - 2) Select page: D, address: 10, set data: 00, and press the PAUSE button of the adjustment remote commander.
 - 3) Select page: 0, address: 01, and set data: 00.

3-1-3. How to Enter Record Mode Without Cassette

- 1) Connect the adjustment remote commander to the LANC jack.
- 2) Turn the HOLD switch of the adjustment remote commander to the ON position.
- 3) Close the cassette compartment without the cassette.
- Select page: 3, address: 01, set data: 0C, and press the PAUSE button of the adjustment remote commander.
 (The mechanism enters the record mode automatically.)
 Note: The function buttons become inoperable.
- 5) To quit the record mode, select page: 3, address: 01, set data: 00, and press the PAUSE button of the adjustment remote commander. (Whenever you want to quit the record mode, be sure to quit following this procedure.)

3-1-4. How to Enter Playback Mode Without Cassette

- 1) Connect the adjustment remote commander to the LANC jack.
- Turn the HOLD switch of the adjustment remote commander to the ON position.
- 3) Close the cassette compartment without the cassette.

Note: The function buttons become inoperable.

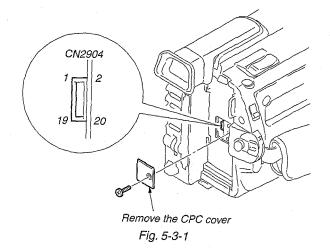
- 4) Select page: 3, address: 01, set data: 0B, and press the PAUSE button of the adjustment remote commander.

 (The mechanism enters the record mode automatically.)
- 5) To quit the playback mode, select page: 3, address: 01, set data: 00, and press the PAUSE button of the adjustment remote commander. (Whenever you want to quit the playback mode, be sure to quit following this procedure.)

3-1-5. Adjusting Connectors

Some of the adjusting points of the video section are concentrated at VI-151 board CN2904. Connect the measuring instruments via the CPC-8 jig (J-6082-388-A). The following table lists the pin numbers and signal names of CN2904.

| Pin No. | Signal Name | Pin No. | Signal Name |
|---------|-------------|---------|--------------------|
| 1 | LACN SIG | 2 | EVF BL+ |
| 3 | EVF BL- | 4 | EVF VG |
| 5 | EVF VCO | 6 | GND |
| 7 | PD VG | 8 | PD VCO |
| 9 | H START | 10 | XHD/PSIG |
| 11 | PANEL COM | 12 | TMS |
| 13 | TCK | 14 | TDI |
| 15 | TDO | 16 | GND |
| 17 | SWP | 18 | RF IN/LANC JACK IN |
| 19 | GND | 20 | RF MON |



3-1-6. Connecting the Equipment

Connect the measuring instruments as shown in Fig. 5-3-2, and perform the adjustments.

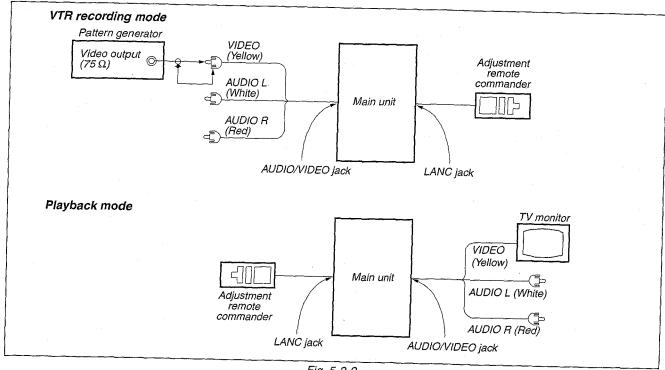


Fig. 5-3-2

3-1-7. Checking the Input Signals

Because the video signal obtained from the pattern generator is used as the adjustment signal for adjusting the VTR section, the video output signal must satisfy the given specifications.

Connect the oscilloscope to the video terminal of the AUDIO/ VIDEO jack, and check that the sync signal amplitude of the video signal is approximately <0.286 V> [0.30 V], the amplitude of the video section is approximately <0.714> [0.70 V], the amplitude of the burst signal is approximately <0.286> [0.30 V] and flat, and that the level ratio of the burst signal to the "red" signal is 0.30: 0.60.

The video signal used for adjusting the video section is shown in Fig. 5-3-3.

> NTSC model []: PAL model

3-1-8. Alignment Tapes

Use the alignment tapes shown in the following table.
Use tapes specified in the signal column of each adjustment.

| Name | Use |
|---|-------------------------------|
| Tracking standard (XH2-1) | Tape path adjustment |
| SW/OL standard (XH2-3) | Switching position adjustment |
| Audio operation check (XH5-3 (NTSC), XH5-3P (PAL)) | Audio system adjustment |
| System operation check (XH5-5 (NTSC), XH5-5P (PAL)) | Operation check |
| BIST check (XH5-6 (NTSC), XH5-6P (PAL)) | BIST check |

Fig. 5-3-3 shows the 75% color bar signals recorded on the alignment tape for Audio Operation Check.

Note: Measure with video terminal (Terminated at 75 Ω)

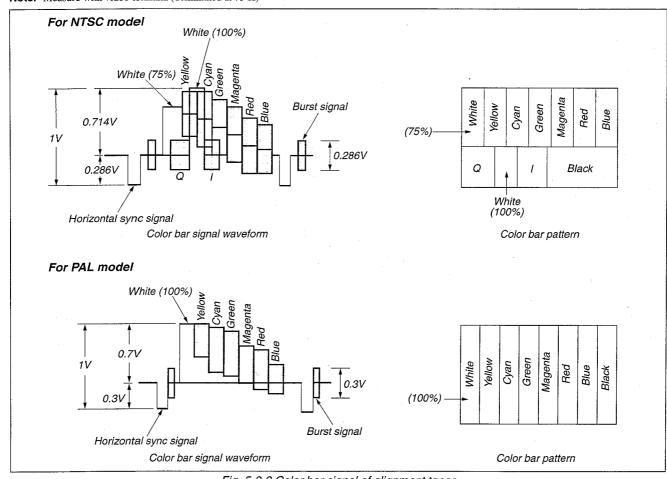


Fig. 5-3-3 Color bar signal of alignment tapes

3-1-9. Input/Output Level and Impedance

Video input/output

Special stereo mini jack

Video signal:

1 Vp-p, 75 Ω unbalanced,

sync negative

S video input/output

4-pin mini DIN

Luminance signal: 1 Vp-p, 75 Ω unbalanced,

sync negative

Chrominance signal: 0.286 Vp-p, 75 Ω unbalanced (NTSC)

: 0.300 Vp-p, 75 Ω unbalanced (PAL)

Audio input/output

Special stereo mini jack

Input level: 327 mV

Input impedance: More than 47 kW

Output level: 327 mV (at load impedance 47 k Ω)

Output impedance: Below 2.2 k Ω

3-2. INITIALIZATION OF B, C, D PAGE DATA

1. Initializing the C Page Data

Note: If the page C data is initialized, the following adjustments must be performed again.

- 1) Modification of C page data
- 2) Servo system, RF system adjustments

| Adjusting page | C |
|-------------------|----------|
| Adjusting Address | 00 to DF |

Initializing Method:

- Select page: 0, address: 01, and set data: 01. 1)
- Select page: 3, address: 80, set data: 0C, and press the PAUSE button of the adjustment remote commander.
- Check that the data of page: 3, address: 80 is changed to "1C".
- 4) Perform "Modification of C Page Data".

2. Modification of C Page Data

If the C Page data has been initialized, change the data of the "Fixed data-2" address shown in the following table by manual input.

Modifying Method:

- 1) Before changing the data, select page: 0, address: 01, and set data: 01.
- New data for changing are not shown in the tables because they are different in destination. When changing the data, copy the data built in the same model.

Note: If copy the data built in the different model, the camcorder may not operate.

- 3) When changing the data, press the PAUSE button of the adjustment remote commander each time when setting new data to write the data in the non-volatile memory.
- Check that the data of adjustment addresses is the initial value. If not, change the data to the initial value.

Processing after Completing Modification of C Page data

- Select page: 2, address: 00, and set data: 29.
- Select page: 2, address: 01, and set data: 29, and press the PAUSE button of the adjustment remote commander.
- Perform the "Servo System, RF System Adjustments".

3. C Page Table

Note: Fixed data-1: Initialized data. (Refer to "1. Initializing the C Page

Fixed data-2: Modified data. (Refer to "2. Modification of C PAGE Data")

| | | Data) | | |
|----------|---------------|--------|--------------------|--|
| 1 due 22 | Initial value | | Remark | |
| Address | NTSC | PAL | | |
| 00 | | | Fixed data-1 | |
| 01 | | | (Initialized data) | |
| 02 | 1 | | | |
| 03 | 1 | | | |
| 04 | | | | |
| 05 | | | | |
| 06 | | | | |
| 07 - | | | | |
| 08 | | | | |
| 09 | _ | | | |
| 0A | | | | |
| 0B | | | | |
| 0C | _ | | | |
| 0D | | | | |

| | Initia | l val | ue | Remark |
|-----------------|---------------|------------------|--|--|
| ddress | NTSC | | \L | |
| 0E | | | | Fixed data-1 |
| 0F | | | | (Initialized data) |
| 10 | EE | | | Switching position adj. |
| 11 | 00 | | 00 | |
| 12 | EE | | E | |
| 13 | 00 | | 00 | |
| 14 | _ | | | Fixed data-1 |
| 15 | | | | G FO Landi |
| 16 | E0 | | Ξ0 | Cap FG duty adj. |
| 1.7 | E0 | | E0 | T reel FG duty adj. |
| 18 | 2A | | 2A | AEQ adj. |
| 19 | 2A | | 2A | Fired data 1 |
| 1A | | | 22 | Fixed data-1 AEQ adj. |
| 1B | 33 | | 33 | AEQ adj. |
| 1C | 33 | | 33 | Fixed data-1 |
| 1D | | | 25 | AGC center level adj. |
| 1E | 25 | | 25 3E | PLL fo adj. |
| 1F | 31 | | 3E 3E | 1 LL 10 auj. |
| 20 | 3I | | DC | APC adj. |
| 21 | 99 | | 99 | LPF fo adj. |
| 22 | - 99 | 7 | フフ | Fixed data-1 |
| 23 | \dashv | | | Thed data 1 |
| 24 | 8 | 0 | 88 | S VIDEO out Y level adj. |
| 25 26 | E | | E3 | S VIDEO out Cr level adj. |
| 27 | $\frac{1}{A}$ | | A1 | S VIDEO out Cb level adj. |
| 28 | 13 | .1 | | Fixed data-1 |
| 29 | _ | | | |
| $\frac{25}{2A}$ | - | | | 1 |
| 2B | |)4 | 04 | Chroma BPF adj. |
| 2C | F LAN | 145.54 | en e | Fixed data-2 |
| 2D | Sa Indian | tuk ujun jukeuju | - | Fixed data-1 |
| 2E | | Carlo Milano | Section 1991. | Fixed data-2 |
| 2F | | | | (Modified data, copy the data built in |
| 30 | | | | the same model.) |
| 31 | | | | |
| 32 | | | | Fixed data-1 |
| 33 | | | | 3941 |
| 34 | | | | Fixed data-2 |
| 35 | | | | Fixed data-1 |
| 36 | | | | |
| 37 | | | | 11 |
| 38 | | 00 | 00 | |
| 39 | | 00 | 00 | |
| 3A | | 00 | 00 | |
| 3B | | 00 | 00 | |
| 30 | | 00 | 00 | - |
| 3E | | 00 | 00 | |
| 3E | | 00 | 00 | |
| 3F | | 00 | 00 | |
| 40 | | 00 | 00 | |
| 41 | | 00 | 00 | |
| 42 | | 00 | 00 | |
| 43 | | 00 | 00 | Fixed data-1 |
| | 4 | | | HIXEO ONIA- I |

| | Initial | value | Domoule |
|---------|--|---|--|
| Address | NTSC | PAL | Remark |
| 45 | | | Fixed data-1 |
| 46 | | | |
| 47 | 20 | 20 | PLL fo final adj. |
| 48 | | | Fixed data-1 |
| 49 | | | (Initialized data) |
| 4A | | | |
| 4B | | | |
| 4C | | | |
| 4D | | | |
| 4E | | | |
| 4F | | | |
| 50 | Sale to Chap | | with the second desired the second was a second of the second sec |
| 51 | | | Fixed data-1 |
| 52 | | | |
| 53 | | | |
| 54 | | | |
| 55 |] | | |
| 56 | 1 | | |
| 57 | 1 | | |
| 58 | | | |
| 59 | 1 | | |
| 5A | | | |
| 5B | 1 | | |
| 5C | İ | | |
| 5D | | | |
| 5E | | | |
| 5F | | | |
| 60 | 35833300 | 100 000 000 000 000 000 000 000 000 000 | Fixed data-2 |
| 61 | | | |
| 62 | consiste or obtain smalls | <u>, hilipita I padésasi</u> | Fixed data-1 |
| 63 | - | | (Initialized data) |
| 64 | | | , |
| 65 | 1 | | |
| 66 | 1 | | e de la companya de |
| 67 | 1 | | |
| 68 | 1 | | |
| 69 | 1 | | |
| 6A | 1 | | |
| 6B | 1 | | |
| 6C | 1 | | |
| 6D | - | | |
| 6E | 1 | | |
| 6F | | | Fixed data-2 |
| 70 | | | Fixed data-1 |
| 71 | 1 | | (Initialized data) |
| 72 | 2 | accention from | Fixed data-2 |
| 73 | 03 | 03 | APC adj. |
| 74 | 0.5 | L 03 | Fixed data-1 |
| 75 | - | | (Initialized data) |
| 76 | - | | (Initialization duta) |
| 77 | WE TO T | abtomorph v Are - | Fixed data-2 |
| 78 | San As a | io (A) States | Fixed data-1 |
| 78 | - | | (Initialized data) |
| 7A | - | | (Initialized data) |
| 7B | - | | |
| | - | | |
| 7C | 1 | | |

| Address | Initial value | Rem | nark |
|----------|--|--|--|
| 7D | NISC FAL | Fixed data-1 | |
| 7E | | (Initialized data) | |
| 7E | | (Initialized data) | |
| 80 | ra sumateria de como de la como d La granda de la como d | Fixed data-2 | pri in the second secon |
| 81 | d white here were a second of the second of | Fixed data-1 | o to the contract of the feet |
| 82 | | (Initialized data) | |
| | | (Illinalized data) | |
| 83 | | | |
| 84 | | | |
| 85 | | | |
| 86 | V 1 0 4 0 4 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 | <u> </u> | · * * · · · · · · · · · · · · · · · · · |
| 87 | | Fixed data-2 | 8 |
| 88 | | | i de la companya di salah di s |
| 89 | 5 1411 | | 9 |
| 8A | in the state of th | <u> </u> | <u> </u> |
| 8B | | Fixed data-1 | |
| 8C | | (Initialized data) | |
| 8D | | Fixed data-2 | |
| 8E | province in the b | er er præðir ei herr mákkir fra þeistræ. <u>Dett herri filmskir ská</u> ldinstaðir sa | i de la composição de la Composição de la composição de la composiç |
| 8F | | Fixed data-1 | |
| 90 | | (Initialized data) | |
| 91 | | | |
| 92 | | | |
| 93 | | | |
| 94 | | | |
| 95 | | | |
| 96 | | | |
| 97 | | | |
| 98 | | | |
| 99 | | | |
| | | | |
| 9A | | | |
| 9B | | | |
| 9C | | - | |
| 9D | | | |
| 9E | | | |
| 9F | | | |
| A0 | | | |
| A1 | | | |
| A2 | | | |
| A3 | | Fixed data-2 | |
| A4 | | Fixed data-1 | |
| A5 | | (Initialized data) | |
| A6 | | | |
| A7 | | | |
| A8 | | | |
| A9 | | | |
| AA | 80 80 | PLL adj. | |
| AB | 00 00 | Fixed data-1 | |
| AC | | Tixou udia 1 | |
| AD | | Fixed data-2 | A service and the service of the ser |
| AE AE | | Fixed data-1 | <u>inaraktur, 180ar - ± 1</u> |
| | | 1 1xeu data-1 | |
| AF | | | |
| B0 | | | |
| B1 | | Fixed data-2 | |
| B2 | | | \$1 |
| В3 | | | |
| B4 | | | |

| | Initial | value | Down out |
|---------|-----------------|----------------------|--|
| Address | NTSC | PAL | Remark |
| B5 | *** | | Fixed data-2 |
| В6 | 1 . | gines. Salines | (S.S., 1) |
| B7 | | in the second second | Fixed data-1 |
| B8 | rgyrna (Neus) | -0 (V/50) | Fixed data-2 |
| В9 | Candada America | 2-0.000 | Fixed data-1 |
| BA | 1 | | (Initialized data) |
| BB | - | | |
| BC | 1177 | 50 1350 No. 1175 | Fixed data-2 |
| BD | | 1999 1997 | |
| BE | 1 2 3 4 3 | Leading | AND AND ASSESSMENT OF THE PARTY |
| BF | 5 1 - NO | | Fixed data-1 |
| C0 | | | (Initialized data) |
| C1 | | | |
| C2 | _ | | |
| C3 | | | |
| C4 | | | |
| C5 | | | |
| C6 | | | |
| C7 | | | |
| C8 | | | |
| C9 | | | |
| CA | | | |
| СВ | | | |
| CC | | | |
| CD | | | |
| CE | | | |
| CF | | | |
| D0 | | | |
| D1 | | | |
| D2 | | | |
| D3 | | | |
| D4 | | | |
| D5 | | | |
| D6 | | | |
| D7 | | | |
| D8 | | | |
| D9 | | | |
| DA | | | |
| DB | | | |
| DC | | | |
| DD | | | |
| DE | | | |
| DF | | | |
| E0 to | FF | | |

Table. 5-3-2

4. Initializing the D Page Data

Note: If the D page data is initialized, the following adjustments must be performed again.

- 1) Modification of D page data
- 2) Video system adjustments
- 3) Color electronic viewfinder system adjustments
- 4) LCD system adjustments
- 5) Battery end adjustment

| Adjusting page | D |
|-------------------|----------|
| Adjusting Address | 10 to 8F |

Initializing Method:

- Select page: 0, address: 01, and set data: 01. 1)
- Select page: 3, address: 80, set data: 0D, and press the PAUSE
- Check that the data of page: 3, address: 80 is changed to "1D".
- 4) Perform "Modification of D Page Data".

5. Modification of D Page Data

If the D Page data has been initialized, change the data of the "Fixed data-2" address shown in the following tables by manual input.

Modifying Method:

- 1) Before changing the data, select page: 0, address: 01, and set
- New data for changing are not shown in the tables because they are different in destination. When changing the data, copy the data built in the same model.

Note: If copy the data built in the different model, the camcorder may not operate.

- 3) When changing the data, press the PAUSE button of the adjustment remote commander each time when setting new data to write the data in the non-volatile memory.
- Check that the data of adjustment addresses is the initial value. If not, change the data to the initial value.

Processing after Completing Modification of D Page data

- Select page: 2, address: 00, and set data: 29.
- Select page: 2, address: 01, and set data: 29, and press the PAUSE button of the adjustment remote commander.
- 3) Perform the following adjustments.
 - Video system adjustments 1)
 - Color electronic viewfinder system adjustments
 - LCD system adjustments 3)
 - 4) Battery end adjustment

6. D Page Table

Note: Fixed data-1: Initialized data. (Refer to "4. Initializing the D Page

Data")

Fixed data-2: Modified data. (Refer to "5. Modification of D PAGE

| A .1.1 | Initial value | | Remark |
|----------|---------------|-----|--|
| Address | NTSC | PAL | Heman |
| 00 to 0F | | | |
| 10 | 00 | 00 | Test mode |
| 11 | | | Fixed data-1 |
| 12 | | | (Initialized data) |
| 13 | | | Fixed data-2 |
| 14 | ļ | | (Modified data, copy the data built in |
| 15 | | | the same model.) |
| 16 | | | Fixed data-1 |
| 17 | 1 | | (Initialized data) |
| 18 | A. 4. | | Fixed data-2 |

| | Initial | value | |
|----------|--|---|--|
| Address | NTSC | | Remark |
| 19 | 14100 | | Fived data-2 |
| 19 1A | A Company | | Fixed data-2 Fixed data-1 |
| | | | |
| 1B | A | | (Initialized data) |
| 1C | al arm 18 galactic | and the second second | Fixed data-2 |
| 1D | | | Fixed data-1 |
| 1E | | | |
| 1F | | | |
| 20 | | | Fixed data-2 |
| 21 | | | Fixed data-1 |
| 22 | | | |
| 23 | | | |
| 24 | 988-11-Jun 10 Visib | aprii parti parti parti Sentra 1887 | Fixed data-2 |
| 25 | comballa si | al de la la deservición. Como de la la la deservición de la | |
| 26 | | in a management of the second | Fixed data-1 |
| 27 | | an nedicare | Fixed data-2 |
| 28 | es se que la com | Saratisa 1 | |
| | A STATE OF AS | A Service Control of the Control of | Fixed data-1 |
| 29 | | Application of the second | Fixed data-1 |
| 2A | | | |
| 2B | 1 72 5 2 17 2 14 | organist | (Modified data, copy the data built in |
| 2C | | | the same model.) |
| 2D | AND THE | Ak Child | |
| 2E | | | Fixed data-1 |
| 2F | | | |
| 30 | 9D | 90 | Battery end adj. |
| 31 | 97 | 97 | |
| 32 | A9 | · A9 | |
| 33 | AD | AD | · |
| 34 | B5 | B5 | |
| 35 | | | Fixed data-2 |
| 36 | arta dellas. | รู้หารท่องที่สาร ราชสาราชาสเตรี | ngi sing on song ing kabupatèn panggapatèn di kabupatèn panggapatèn balanggapatèn. Kabupatèn sa kabupatèn sa Akade sa kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabup |
| Sandoni | 10 ALAL | | Fixed data-1 |
| 37 | - | | rixed data-1 |
| 38 | 5 FAR (50 F0F) | | |
| 39 | | | Fixed data-2 |
| 3A. | | assession as Taxon | And the second of the second o |
| 3B | ind divisions bearing | | Reg. A. T. C. |
| 3C | | | Fixed data-1 |
| 3D | The fact of the same | A Company | Fixed data-2 |
| 3E | | | (Modified data, copy the data built in |
| 3F | | | the same model.) |
| 40 | 1 | | |
| 41 | 1 | | Fixed data-1 |
| 42 | SVE W | | Fixed data-2 |
| 43 | | <u> Carrier della selecci</u> | Fixed data-1 |
| 44 | 12.12.3 | e distriction | T: 4 464 2 |
| 45 | on military fra | s complete supe | Fixed data-1 |
| 46 | 1 | | 11/20 000 1 |
| | - | | |
| 47 | - | | |
| 48 | | | F. 11. |
| 49 | 10 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ige og skylige fra sk ag en skylige fra sk | Fixed data=2 |
| 4A | ļ | | Fixed data-1 |
| 4B | | ــــــــــــــــــــــــــــــــــــــ | Fixed data-2 |
| 4C | | | Fixed data-1 |
| 4D | | | Fixed data-2 |
| 4E | | | and the second s |
| 4F | | 1 (A) | and the second of the second o |
| 50 | | | Fixed data-1 |
| | ł | | |

| Address | Initial | value | Remark |
|---------|---|--|---|
| Address | NTSC | PAL | nemark |
| 51 | | | Fixed data-1 |
| 52 | | | |
| 53 | 1 | | |
| 54 | 1 | | |
| 55 | 1 | | • |
| 56 | 1 | | |
| 57 | 1 | | |
| 58 | 1 | | |
| 59 | 1 | | |
| 5A | 1 | | |
| 5B | - | | |
| 5C | 1 | | |
| | - | | |
| 5D | - | | |
| 5E | - | | |
| 5F | | | |
| 60 | 1 | | |
| 61 | 1 | | |
| 62 | 1 | | |
| 63 | | | |
| 64 | | eranda berende Gerka da darah | Fixed data-2 |
| 65 | | ry isyan isi 40.245.25 | i dan da Victoria de Sacrada e Nova Papa (1941) e 1848 kan 1951 de ili. Boli 19 II. (1954 <u>- 1968 kanda di papa de Cantananda (1961 - 1968 kan 1</u> 964 kan |
| 66 | | | Fixed data-1 |
| 67 | | | (Initialized data) |
| 68 | | | |
| 69 | | | |
| 6A | | Algorithms (| Fixed data-2 |
| 6B | | | |
| 6C | Section 1 | | |
| 6D | [04.0/mW.5100000 | 200 at 1 400 down 2011 | Fixed data-1 |
| 6E | | n a denamen ng 19 aj kg. Al-Matanda | Fixed data-2 |
| 6F | | | |
| 70 | | See Chert Life | |
| 71 | 80 | 80 | White balance adj. (EVF) |
| 72 | 80 | 80 | , , |
| 73 | | 1 (2000) | Fixed data-2 |
| 74 | , 14 21 Engage-10.1 | pro Augustina - Augustina | Fixed data-1 |
| 75 | 80 | 80 | VCO adj. (EVF) |
| 76 | В0 | В0 | Backlight consumption current adj. (EVF) |
| 77 | | | Fixed data-1 |
| 78 | en er offisj | | Fixed data-2 |
| 79 | Salah dari dari dari dari dari dari dari dari | iniciale the bear. | Fixed data-1 |
| 7A | 98 | 98 | Bright adj. (EVF) |
| 7B | 80 | 80 | Contrast adj. (EVF) |
| 7C | | The second secon | Fixed data-2 |
| 7D | 1985 | 292 1 | |
| 7E | 1. B | <u> </u> | Fixed data-1 |
| 7F | | | |
| 80 | A0 | A0 | White balance adj. (LCD) |
| 81 | 70 | 70 | ommoo mij. (ECD) |
| 82 | C8 | C8 | D range adj. (LCD) |
| 83 | 94 | 94 | V-COM level adj. (LCD) |
| 84 | 90 | 90 | VCO adj. (LCD) |
| 85 | | | |
| | 5A | 5A | V-COM adj. (LCD) |
| 86 | | | Fixed data-1 |
| 87 | | | |
| 88 | | | |

| A diduca a a | Initial | value | Remark | |
|--------------|----------|--------|---------------------|----------------|
| Address | NTSC PAL | nemark | | |
| 89 | | | Fixed data-1 | |
| 8A | 58 | 58 | Bright adj. (LCD) | |
| 8B | | | Fixed data-2 | Haran Gayan |
| - 8C | 62 | 62 | Contrast adj. (LCD) | |
| 8D | | | Fixed data-2 | 1146 |
| 8E | | | Fixed data-1 | |
| 8F | · | | | |
| 90 to FF | | | | |

Table. 5-3-3

7. Initializing the B Page Data

Note: If the B page data is initialized, the following adjustments must be performed again.

1) Modification of B page data

| Adjusting page | В |
|-------------------|----------|
| Adjusting Address | 00 to DF |

· Initializing Method:

- 1) Set the power switch to the MEMORY position.
- 2) Select page: 0, address: 01, and set data: 01.
- 3) Select page: 2, address: 8F, set data: 03, and press the PAUSE button.
- 4) Select page: 2, address: 8F, set data: 00, and press the PAUSE button.
- Select page: 5, address: 01, set data: F3, and press the PAUSE button.
- 6) Select page: 5, address: 00, set data: 01, and press the PAUSE button
- 7) Select page: 5, address: 02, and check that the data is "00".
- 8) Perform "Modification of B Page Data".

8. Modification of B Page Data

If the B Page data has been initialized, change the data of the "Fixed data-2" address shown in the following tables by manual input.

Processing before Modification of B Page data

- Select page: 2, address: 8F, set data: 03, and press the PAUSE button.
- 2) Select page: 2, address: 8F, set data: 00, and press the PAUSE button.

Modifying Method:

- Before changing the data, select page: 0, address: 01, and set data: 01.
- New data for changing are not shown in the tables because they are different in destination. When changing the data, copy the data built in the same model.
 - Note: If copy the data built in the different model, the camcorder may not operate.
- 3) When changing the data, press the PAUSE button of the adjustment remote commander each time when setting new data to write the data in the non-volatile memory.

Processing after Completing Modification of B Page data

- 1) Select page: 2, address: 00, and set data: 29.
- 2) Select page: 2, address: 01, and set data: 29, and press the PAUSE button of the adjustment remote commander.

9. B Page Table

Note: Fixed data-1: Initialized data. (Refer to "7. Initializing the B Page Data")

Fixed data-2: Modified data. (Refer to "8. Modification of B PAGE Data")

| | Data'') | |
|----------|--------------------|--------|
| Address | | Remark |
| 00 | Fixed data-1 | |
| 01 | (Initialized data) | |
| 02 | | |
| 03 | | |
| 04 | | |
| 05 | | |
| 06 | | |
| 07 | | |
| 08 | | |
| 09 | | · |
| 0A | | |
| 0B | | |
| 0C | | |
| 0D | | |
| 0E | | |
| 0F | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 1A | | |
| 1B | | |
| 1C | | |
| 1D 1E | | |
| 1F | | |
| 20 | | |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |
| 28 | | |
| 29 | | |
| 2A | | |
| 2B | | |
| 2C | - | |
| 2D | | |
| 2E | | |
| 2F | | |
| 30 | | |
| 31 | | |
| 32 | | |
| | L | |

| Address | Remark |
|----------|---------------------------|
| 33 | Fixed data-1 |
| 34 | (Initialized data) |
| 35 | |
| 36 | |
| 37 | |
| 38 | |
| 39 | |
| 3A | |
| 3B | |
| 3C | |
| 3D | |
| 3E | |
| 3F | |
| 40 | |
| 41 | |
| 42 | |
| 43 | |
| 44 | |
| 45 | |
| 46 | |
| 47 | |
| 48 | |
| 49 | |
| 4A | |
| 4B | |
| 4C | |
| 4D | |
| 4E | |
| 4F | |
| 50 | |
| 51 | |
| 52 | |
| 53 | |
| 54 | - |
| 55 | |
| 56 | 1 |
| 57 | - |
| 58 | Fixed data-2 |
| 59 | Fixed data-1 |
| 5A | Tixed data-1 |
| 5B | <u>-</u> |
| 5B 5C | Fixed data-2 |
| 5D | Fixed data-2 Fixed data-1 |
| 5E | Fixed data-1 Fixed data-2 |
| 5F | 1 IAGG Gata-2 |
| 60 | Fixed data-1 |
| 61 | (Initialized data) |
| 62 | - (mindiffeet dam) |
| 63 | - |
| 64 | - |
| 65 | - |
| 66 | -{ |
| | - 1 |
| 67 | Fixed data-2 |
| 68 | Fixed data-2 Fixed data-1 |
| 69 | |

| Address | Remark |
|------------|---|
| 6B | Fixed data-1 |
| 6C | (Initialized data) |
| 6D | Fixed data-2 |
| 6E | Fixed data-1 |
| 6F | Fixed data-2 |
| 70 | (Modified data, copy the data built in the same |
| 71 | model.) |
| 72 | Fixed data-1 |
| 73 | (Initialized data) |
| 74 | |
| 75 | |
| 76 . 77 | , |
| 78 | |
| 79 | |
| 7A | |
| 7B | |
| 7C | |
| 7D | |
| 7E | |
| 7F | |
| 80 | |
| 81 | |
| 82 | |
| 83 | |
| 84 | |
| 85 | |
| 86 | |
| 87 | |
| 88 | |
| 89 | |
| 8A | |
| 8B | |
| 8C | |
| 8D 8E | |
| 8F | |
| 90 | |
| 91 | |
| 92 | |
| 93 | |
| 94 | |
| 95 | |
| 96 | |
| 97 | |
| 98 | |
| 99 | |
| 9A | · |
| 9B | |
| 9C | |
| 9D | |
| 9E | |
| 9F | |
| A0 A1 | |
| A1 A2 | |
| rs.z | |

| Address | Remark |
|----------|--------------------|
| A3 | Fixed data-1 |
| A4 | (Initialized data) |
| A5 | |
| A6 | |
| A7 | |
| A8 | |
| A9 | |
| AA | |
| AB | |
| AC | |
| AD | |
| AE | |
| AF | |
| B0 | |
| B1 | |
| B2 | |
| B3 | |
| B4 | |
| B5 | |
| В6 | |
| В7 | |
| B8 | |
| В9 | |
| BA | |
| ВВ | |
| BC | |
| BD | |
| BE | |
| BF | |
| C0 | |
| C1 | • |
| C2 | |
| C3 | |
| C4 | · |
| C5 | |
| C6 | |
| C7 C8 | |
| C9 | |
| CA | |
| CB | |
| CC | |
| CD | |
| CE | |
| CF | |
| D0 | |
| D1 | |
| D2 | |
| D3 | |
| D3 | |
| D5 | |
| D6 | |
| D7 | |
| D8 | |
| D9 | |
| DA | |
| | |

| Address | Remark |
|----------|--------------------|
| DB | Fixed data-1 |
| DC | (Initialized data) |
| DD | · |
| DE | |
| DF | |
| E0 to FF | |

Table. 5-3-4

SYSTEM CONTROL SYSTEM ADJUSTMENT 3-3.

1. Battery End Adjustment (VI-151 Board)

Set the battery end voltage.

If the voltage is incorrect, the life of the battery will shorten. The image at the battery end will also lose synchronization.

| Mode | Camera recordings |
|----------------------|--------------------------------------|
| Subject | Arbitrary |
| Measurement Point | Display data of page: 2, address: 5D |
| Measuring Instrument | Adjustment remote commander |
| Adjustment Page | D |
| Adjustment Address | 30 to 34 |

Switch setting:

| 1) | AUTO FOCUSOFF | |
|----|---------------|--|
| 2) | LCD display | |

Connection:

Connect the regulated power supply and the digital voltmeter to the battery terminal as shown in Fig. 5-3-4.

Adjusting method:

- Adjust the output voltage of the regulated power supply so that the digital voltmeter reading is 6.1 ± 0.1 Vdc.
- Turn off the power supply.
- 3) Turn on the HOLD switch of the adjustment remote commander.
- Turn on the power supply.
- 5) Load a cassette, and set the recording mode.
- 6) Select page: 0, address: 01, and set data: 01.
- Decrease the output voltage of the regulated power supply so that the digital voltmeter reading is 5.30 ± 0.01 Vdc.
- Select page: 2, address: 5D, read the data, and this data is named Dref.
- Set the read-out data (Dref) to page: D. address: 30 and press the PAUSE button.
- 10) Convert Dref to decimal notation, and obtain Dref'. (Refer to Table 5-4-1 "Hexadecimal-decimal Conversion Table" of "5-4. Service Mode".)
- 11) Calculate D₃₁', D₃₂', D₃₃', D₃₄' and D₄₉' using following equations (decimal calculation), convert it to a hexadecimal number, and input each adjustment address.

Address: $31 D_{31}' = Dref' + 7$ Address: 32 D₃₂' = Dref' + 25

Address: 33 D₃₃' = Dref' + 29

Address: $34 D_{34}' = Dref' + 37$

Note: After setting each data, be sure to press the PAUSE button of the adjustment remote commander.

12) Select page: 0, address: 01, and set data: 00.

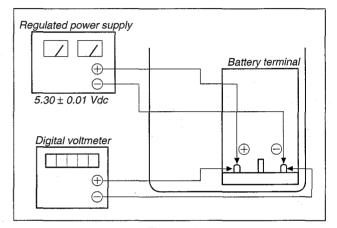


Fig. 5-3-4

3-4. SERVO AND RF SYSTEM ADJUSTMENT

Before performing the servo and RF system adjustments, check that the specified value of "27 MHz Master Oscillator Adjustment" of "CAMERA SYSTEM ADJUSTMENT" is satisfied.

Adjusting Procedure:

- 1. Cap FG duty adjustment
- 2. T-reel FG duty adjustment
- 3. PLL fo & LPF fo adjustment
- 4. Switching position adjustment
- 5. AGC center level adjustment
- 6. APC & AEQ adjustment
- PLL fo & LPF fo final adjustment

1. Cap FG Duty Adjustment (VI-151 Board)

Set the Cap FG signal duty cycle to 50% to establish an appropriate capstan servo. If deviated, the uneven rotation of capstan and noise can occur.

| Call Occur. | |
|----------------------|--------------------------------------|
| Measurement Point | Display data of page: 3, address: 03 |
| Measuring Instrument | Adjustment remote commander |
| Adjustment Page | С |
| Adjustment Address | 16 |
| Specified Value | 00 |

Adjusting Method:

- 1) Close the cassette compartment without inserting a cassette.
- 2) Select page: 0, address: 01, and set data: 01.
- 3) Select page: 3, address: 01, set data: 1B, and press the PAUSE button of the adjustment remote commander.
- Select page: 3, address: 02, and check that the data changes starting from "1B" to "2B" to "00" in this order.
- 5) Select page: 3, address: 03, and check that the data is "00".

 Note: If the data of page: 3, address: 03 is "02", adjustment has errors or the mechanism deck is defective.
- 6) Select page: 0, address: 01, and set data: 00.

2.T Reel FG Duty Adjustment (VI-151 Board)

Adjust the take-up reel FG signal duty cycle to an appropriate value so that the correct T-reel FG signal is obtained.

| SO that the correct 1 1001 | |
|----------------------------|--------------------------------------|
| Measurement Point | Display data of page: 3, address: 03 |
| Measuring Instrument | Adjustment remote commander |
| Adjustment Page | С |
| Adjustment Address | 17 |
| Specified Value | 00 |

Adjusting Method:

- 1) Close the cassette compartment without inserting a cassette.
- 2) Select page: 0, address: 01, and set data: 01.
- 3) Select page: 3, address: 01, set data: 1C, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: 3, address: 02, and check that the data changes starting from "1C" to "2C" to "00" in this order.
- 5) Select page: 3, address: 03, and check that the data is "00". Note: If the data of page: 3, address: 03 is "02", adjustment has errors or the mechanism deck is defective.
- 6) Select page: 0, address: 01, and set data: 00.

3. PLL fo & LPF fo Adjustment (VI-151 Board)

| Mode | VTR stop |
|----------------------|--------------------------------------|
| Measurement Point | Display data of page: 3, address: 03 |
| Measuring Instrument | Adjustment remote commander |
| Adjustment Page | C |
| Adjustment Address | 1F, 20, 22, 47 |
| Specified Value | 00 |

Adjusting Method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 01, set data: 30, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 3, address: 02, and check that the data is changed to "00".
- 4) Select page: 3, address: 03, and check that the data is "00".

 Note: If the data of page: 3, address: 03 is other than "00", there are errors. (For the error contents, see the following table. For the bit values, refer to "5-4. SERVICE MODE", "4-3. 3. Bit value discrimination".
- 5) Select page: 0, address: 01, and set data: 00.

| Bit value of page: 3, address: 03 | Elloi Contenta |
|-----------------------------------|--------------------------------------|
| bit 4 = 1 | PLL fo, even channel is defective |
| bit $5 = 1$ | PLL fo, odd channel is defective |
| bit 6 = 1 | LPF fo is defective |
| bit 3 = 1 | PLL fo final adjustment is defective |

4. Switching Position Adjustment (VI-151 Board)

| Mode | VTR playback |
|----------------------|--------------------------------------|
| Signal | SW/OL reference tape (XH2-3) |
| Measurement Point | Display data of page: 3, address: 03 |
| Measuring Instrument | Adjustment remote commander |
| Adjustment Page | С |
| Adjustment Address | 10, 11, 12, 13 |
| Specified Value | 00 |

Adjusting Method:

- 1) Insert the SW/OL reference tape and enter the VTR STOP mode.
- 2) Select page: 0, address: 01, and set data: 01.
- 3) Select page: 3, address: 21, and check that the data is "02".
 Note: If the data of page: 3, address: 21 is "72", the tape top is being played. After playing the tape for 1 to 2 seconds, perform step 4 and higher.
- 4) Select page: 3, address: 01, set data: 0D, and press the PAUSE button of the adjustment remote commander.
- 5) Select page: 3, address: 02, and check the data is changed to "00".
- 6) Select page: 3, address: 03, and check that the data is "00".

 Note: If bit 0 of page: 3, address: 03 data is "1", the even channel is defective. If bit 1 is "1", the odd channel is defective. Contents of the defect is written into page: C, addresses: 10 and 12. See the following table. (For the bit value, refer to "5-4. SERVICE MODE", "4-3. 3. Bit value discrimination".)
- 7) Select page: 0, address: 01, and set data: 00.

When the even channel is defective

| Data of page: C, address: 10 | Contents of defect |
|------------------------------|---|
| EE | Writing into EEPROM (IC2404) is defective |
| E8 | Adjustment data is out of range |
| E7 | No data is returned from IC1900 (TRX) |

When the odd channel is defective

| Data of page: C, address: 12 | Contents of defect | |
|------------------------------|---|--|
| EE | Writing into EEPROM (IC2404) is defective | |
| E8 | Adjustment data is out of range | |
| E7 | No data is returned from IC1900 (TRX) | |

5. AGC Center Level Adjustment (VI-151 Board)

| Mode | Camera record and playback |
|----------------------|--|
| Subject | Arbitrary |
| Measurement Point | Pin @ of CN2904 (RF MON) (Note 1) |
| Measuring Instrument | Oscilloscope |
| Adjustment Page | С |
| Adjustment Address | 1E |
| Specified Value | The display data of page: 3, address: 03 is "00" |

Note 2: Connect a 75 Ω resistor between Pin 9 and Pin 9 (GND) of CN2904.

75 Ω resistor (Parts code: 1-247-804-11)

Adjusting Method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Record the camera signal for a minute.
- 3) Playback the recorded segment.
- 4) Select page: 3, address: 33, and set data: 08.
- 5) Confirm that the playback RF signal is stable.
- 6) Select page: 3, address: 01, set data: 23, and press the PAUSE button of the adjustment remote commander.
- 7) Select page: 3, address: 02, and check that the data is "00".
- 8) Select page: 3, address: 03, and check that the data is "00".

 Note: If data of page: 3, address: 03 is other than "00", adjustment has errors. (Take an appropriate remedial measures according to the errors referring to the following table.)
- 9) Select page: 3, address: 33, and set data: 00.
- 10) Select page: 0, address: 01, and set data: 00.

| Data of page: 3, address: 03 | Remedial measures |
|------------------------------|---------------------------------|
| 20 | Perform re-adjustment. (Note 2) |
| 30 | The machine is defective |
| 40 | Perform re-adjustment. (Note 2) |
| 50 | The machine is defective |

Note 2: If this data is displayed twice successively, the machine is defective.

6. APC & AEQ Adjustment (VI-151 Board)

| Mode | Camera record and playback |
|----------------------|--|
| Subject | Arbitrary |
| Measurement Point | Pin 20 of CN2904 (RF MON) (Note 1) |
| Measuring Instrument | Oscilloscope |
| Adjustment Page | С |
| Adjustment Address | 18, 19, 1B, 1C, 21, 73 |
| Specified Value | The display data of page: 3, address: 03 is "00" |

Note 1: Connect a 75 Ω resistor between Pin 20 and Pin 9 (GND) of CN2904.

75 Ω resistor (Parts code: 1-247-804-11)

Note 2: The "5. AGC Center Level Adjustment" must have already been completed before starting this adjustment.

Adjusting Method:

- Select page: 0, address: 01, and set data: 01.
- Record the camera signal for two minutes.
- Playback the recorded segment.
- 4) Select page: 3, address: 33, and set data: 08.
- Check that the playback RF signal is stable. 5)
- 6) Select page: 3, address: 01, set data: 07, and press the PAUSE button of the adjustment remote commander.
- Check that the data of page: 3, address: 02 changes from "07" to "00" in about 50 seconds after pressing the PAUSE button.
- Select page: 3, address: 03, and check that the data is "00". Note: If data of page: 3, address: 03 is other than "00", adjustment has errors. (Take an appropriate remedial measures according to the errors referring to the following table.)
- 9) Select page: 3, address: 33, and set data: 00.
- 10) Select page: 0, address: 01, and set data: 00.

| Data of page: 3, address: 03 | Tiemodia: mode |
|------------------------------|---------------------------------|
| 20 | Perform re-adjustment. (Note 3) |
| 30 | The machine is defective |
| 50 | Perform re-adjustment. (Note 3) |
| 60 | The machine is defective |
| 80 | The machine is defective |

Note 3: If this data is displayed twice successively, the machine is defective.

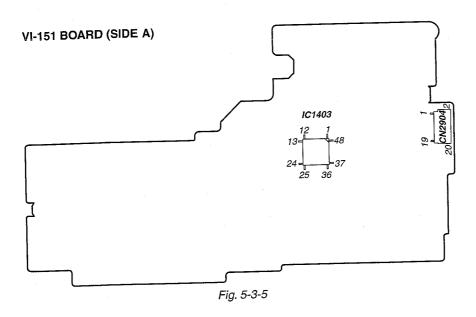
7. PLL fo & LPF fo Final Adjustment (VI-151 Board)

| Mode | VTR playback |
|----------------------|--------------------------------------|
| Signal | Arbitrary |
| Measurement Point | Display data of page: 3, address: 03 |
| Measuring Instrument | Adjustment remote commander |
| Adjustment Page | C |
| Adjustment Address | 1F, 20, 22, 47 |
| Specified Value | 00 |

Adjusting Method:

- Select page: 0, address: 01, and set data: 01.
- Select page: 3, address: 01, set data: 30, and press the PAUSE button of the adjustment remote commander.
- Select page: 3, address: 02, and check that the data changes to 3) "00".
- Select page: 3, address: 03, and check that the data is "00". Note: If the data of page: 3, address: 03 is other than "00", there are errors. (For the error contents, see the following table. For the bit values, refer to "5-4. SERVICE MODE", "4-3. 3. Bit value discrimination".
- Select page: 0, address: 01, and set data: 00.

| Bit value of page: 3, address: 03 | Ellor contents |
|--------------------------------------|--------------------------------------|
| bit 4 = 1 | PLL fo, even channel is defective |
| bit 5 = 1 | PLL fo, odd channel is defective |
| bit 6 = 1 | LPF fo is defective |
| bit $3 = 1$ | PLL fo final adjustment is defective |



3-5. VIDEO SYSTEM ADJUSTMENTS

Before perform the video system adjustments, check that the specified value of "27 MHz Origin Oscillation Adjustment" of "CAMERA SYSTEM ADJUSTMENT" is satisfied.

3-5-1. Base Band Block Adjustments

1. Chroma BPF fo Adjustment (VI-151 Board)

Set the center frequency of IC1402 chroma band-pass filter.

| Mode | VTR stop |
|----------------------|--|
| Signal | No signal |
| Measurement Point | CH1: Chroma signal terminal of S VIDEO jack (75 Ω terminated) CH2: Y signal terminal of S VIDEO jack (75 Ω terminated) |
| Measuring Instrument | Oscilloscope |
| Adjustment Page | С |
| Adjustment Address | 2B |
| Specified Value | A = 100 mVp-p or less B = 200 mVp-p or more |

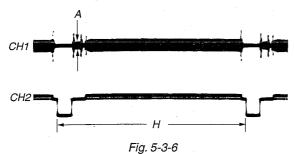
Switch setting:

| DISPLAY (Menu display) | V-OUT/LCD |
|------------------------|-----------|
| DISPLAY (CK-80 board) | ON |

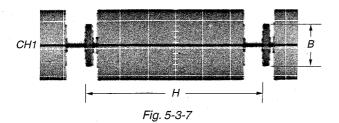
Adjusting method:

- 1) Check that the burst signal (B) is output to the chroma signal terminal of S VIDEO jack.
- 2) Select page: 0, address: 01, and set data: 01.
- Select page: 3, address: 0C, set data: 04, and press the PAUSE button of the adjustment remote commander.
- Select page: C, address: 2B, and change the data for minimum amplitude of the burst signal level (A).
 (The data of address: 2B, should be "00" to "07".)
- 5) Press the PAUSE button of the adjustment remote commander.
- 6) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 6) Check that the burst signal level (B) is satisfied the specified value.
- 7) Select page: 0, address: 01, and set data: 00.

When the data of page: 3, address: 0C, is 04:



When the data of page: 3, address: 0C, is 00.



2. S VIDEO OUT Y Level Adjustment (VI-151 Board)

| Mode | Camera |
|----------------------|--|
| Subject | Arbitrary |
| Measurement Point | Y signal terminal of S VIDEO jack (75 Ω terminated) |
| Measuring Instrument | Oscilloscope |
| Adjustment Page | С |
| Adjustment Address | 25 |
| Specified Value | $A = 1000 \pm 14 \text{ mV}$ |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 2, address: 35. After note down the data of this address, set data: 01 to the address.
- 3) Select page: 3, address: 0C, set data: 02, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: C, address: 25, change the data and set the Y signal level (A) to the specified value.
- 5) Press the PAUSE button of the adjustment remote commander.
- 6) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 7) Select page: 2, address: 35. and set the data that is noted down at step 2).
- 8) Select page: 0, address: 01, and set data: 00.

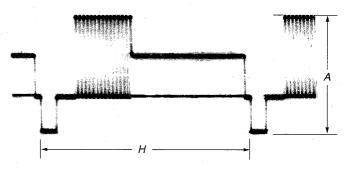


Fig. 5-3-8

3. S VIDEO OUT Chroma Level Adjustment (VI-151 Board)

| (VI-151 Board) | | | |
|----------------------|--|--|--|
| Mode | Camera | | |
| Subject | Arbitrary | | |
| Measurement Point | Chroma signal terminal of S VIDEO jack (75 Ω terminated) External trigger: Y signal terminal of S VIDEO jack | | |
| Measuring Instrument | Oscilloscope | | |
| Adjustment Page | С | | |
| Adjustment Address | 26, 27 | | |
| Specified Value | Cr level: $A = 714 \pm 14 \text{ mV (NTSC)}$ $A = 700 \pm 14 \text{ mV (PAL)}$ Cb level: $B = 714 \pm 14 \text{ mV (NTSC)}$ $B = 700 \pm 14 \text{ mV (PAL)}$ Burst level: $C = 286 \pm 6 \text{ mV (NTSC)}$ $C = 300 \pm 6 \text{ mV (PAL)}$ | | |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: 2, address: 35. After note down the data of this address, set data: 01 to the address.
- 3) Select page: 3, address: 0C, set data: 02, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: C, address: 26, change the data and set the Cr signal level (A) to the specified value.
- 5) Press the PAUSE button of the adjustment remote commander.
- Select page: C, address: 27, change the data and set the Cb signal level (B) to the specified value.
- 7) Press the PAUSE button of the adjustment remote commander.
- 8) Check that the burst signal level (C) is satisfied the specified value.
- 9) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 10) Select page: 2, address: 35. and set the data that is noted down at step 2).
- 11) Select page: 0, address: 01, and set data: 00.

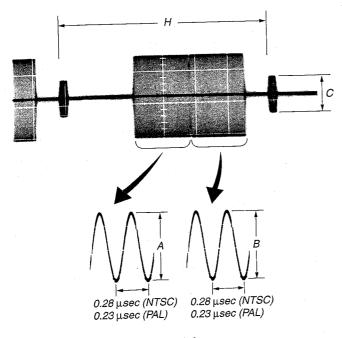


Fig. 5-3-9

4. AV OUTY, Chroma Level Check (VI-151 Board)

| Mode | Camera |
|----------------------|---|
| Subject | Arbitrary |
| Measurement Point | Video terminal of AUDIO/VIDEO jack (75 Ω terminated) |
| Measuring Instrument | Oscilloscope |
| Specified Value | Sync level: A = 286 ± 18 mV (NTSC) A = 300 ± 18 mV (PAL) Burst level: B = 286 ± 18 mV (NTSC) B = 300 ± 18 mV (PAL) |

Adjusting method:

- 1) Select page: 2, address: 35. After note down the data of this address, set data: 01 to the address.
- 2) Select page: 3, address: 0C, set data: 02, and press the PAUSE button of the adjusting remote commander.
- 3) Check that the sync signal level (A) satisfies the specified value.
- 4) Check that the burst signal level (B) satisfies the specified value.
- 5) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 6) Select page: 2, address: 35. and set the data that is noted down at step 1).

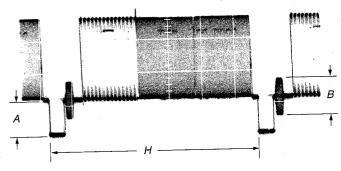


Fig. 5-3-10

5. PLL Adjustment (VC-208 Board)

Set the VCO center level of the video input circuit (IC1200).

| Mode | VTR stop |
|----------------------|--|
| Signal | Color bar (Video terminal of AUDIO/ VIDEO jack input) |
| Measurement Point | Display data of page: 3, address: 04 |
| Measuring Instrument | Adjustment remote commander |
| Adjustment Page | С |
| Adjustment Address | AA |
| Specified Value | 08 or 09 (Note 1) 08 or 09 or 0A (Note 2) |

Note 1: When the data of page: C, address: AA is "00" to "FE".

Note 2: When the data of page: C, address: AA is "FF".

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 0C, set data: 80, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: C, address: AA, and set data: 00, and press the PAUSE button.
- 4) Select page: 3, address: 04, and check. If the data is "08" or "09", proceed to step 7).
- 5) Select page: C, address: AA, add "10" (hexadecimal) to the data (Note 3) and press the PAUSE button.
- Note 3: If the data of page: C, address: AA is "F0", change the data to "FF" and press the PAUSE button.
- 6) Select page: 3, address: 04, and check the data satisfies the specified value. If not repeat steps 5) to 6).
- Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 8) Select page: 0, address: 01, and set data: 00.

3-5-2. BIST Check

1. Playback System Check

1-1. Preparation for Playback

- Set the POWER switch to VTR (or PLAYER) position.
- Connect the adjusting remote commander and set the HOLD switch to ON (SERVICE) position.
- Playback the BIST check tape. (XH5-6 (NTSC), XH5-6P 3) (PAL))

Note: Perform the following checks in the playback mode.

1-2. IC1814 (TRF) BIST (PB) Check

- Select page: 3, address: 12, set data: 04, and press the PAUSE button.
- Select page: 3, address: 12, set data: 00, and press the PAUSE 2) button.
- Select page: 3, address: 13, set data: 02, and press the PAUSE button.
- When the playback system of IC1814 (TRF) is normal, the display data (combination data) of page: 3, address: 16 and 17 agrees with any combination as shown below.

NTSC model

| MISCIII | oue: | | | | | - |
|---------|------|------|-----|-----|----|----|
| Address | | | Da | ata | | |
| L | 63 | C5 | 75 | D3 | 59 | FF |
| 16 | 84 | 55 | 07 | D6 | 01 | D0 |
| 1 1/ 1 | 04 | 1 33 | · · | | | |

PAL model

| Address | | Data | |
|---------|----|------|----|
| 16 | 86 | 33 | 90 |
| 17 | 35 | AA | В6 |

1-3. IC1601 (TFD) BIST (PB) Check

- Select page: 3, address: 40, set data: 0F, and press the PAUSE
- Select page: 3, address: 40, set data: 00, and press the PAUSE 2) button.
- When all playback system of IC1601 (TFD) is normal, the display data (combination data) of page: 3, address: 41 and 42 agrees with any combination as shown below.

| NTSC model | | |
|------------|------|--|
| Address | Data | |
| 41 | 26 | |
| 42 | A1 | |

| PAL model | | |
|-----------|------|--|
| Address | Data | |
| 41 | 69 | |
| 42 | 73 | |

- Select page: 3, address: 40, set data: 03, and press the PAUSE 4)
- Select page: 3, address: 40, set data: 00, and press the PAUSE button.
- When the video playback system of IC1601 (TFD) is normal, the display data (combination data) of page: 3, address: 41 and 42 agrees with any combination as shown below.

NTSC model Address Data 7C 41 01 42

| PAL modei | | |
|-----------|------|--|
| Address | Data | |
| 41 | A6 | |
| 42 | E1 | |

- Select page: 3, address: 40, set data: 05, and press the PAUSE button.
- Select page: 3, address: 40, set data: 00, and press the PAUSE
- When the audio playback system of IC1601 (TFD) is normal, the display data (combination data) of page: 3, address: 41 and 42 agrees with any combination as shown below.

NTSC model Address Data 88 41 A9 42

| PAL model | | | |
|--------------|----|--|--|
| Address Data | | | |
| 41 | 43 | | |
| 42 | C8 | | |

- 10) Select page: 3, address: 40, set data: 09, and press the PAUSE button.
- 11) Select page: 3, address: 40, set data: 00, and press the PAUSE
- 12) When the subcode playback system of IC1601 (TFD) is normal, the display data (combination data) of page: 3, address: 41 and 42 agrees with any combination as shown below.

| | MISC IIIOGEI | |
|---|--------------|------|
| ļ | Address | Data |
| | 41 | 72 |
| | 42 | CD |

| PAL model | | |
|-----------|------|--|
| Address | Data | |
| . 41 | 76 | |
| 42 | A9 | |

1-4. IC1600 (SFD) BIST (PB) Check

- Select page: 0, address: 01, and set data: 01.
- Select page: C, address: AC, set data: 21, and press the PAUSE
- Select page: C, address: AD, set data: 01, and press the PAUSE
- Select page: 3, address: 11, set data: 04, and press the PAUSE button.
- Select page: 3, address: 12, set data: 08, and press the PAUSE button.
- Select page: 3, address: 12, set data: 00, and press the PAUSE button.
- Select page: 3, address: 13, set data: 03, and press the PAUSE
- When the playback system from IC1600 (SFD) to IC2002 (ADC&DAC) is normal, the display data (combination data) of page: 3, address: 14 and 15 agrees with any combination as shown below.

| NTSC model | |
|------------|------|
| Address | Data |
| 14 | 41 |
| 15 | 81 |

| PAL model | | |
|-----------|--|--|
| Data | | |
| 2D | | |
| 7C | | |
| | | |

When the playback system from IC1600 (SFD) to IC1602 (LIP) is normal, the display data (combination data) of page: 3, address: 16 and 17 agrees with any combination as shown below.

| NTSC model | | |
|------------|----|-----|
| Address | Da | ıta |
| 16 | 1E | FO |
| 17 | B4 | 31 |

| PAL model | | |
|-----------|------|--|
| Address | Data | |
| 16 | 1C | |
| 17 | A6 | |

10) When the playback system from IC1600 (SFD) to IC1601 (TDF) is normal, the display data (combination data) of page: 3, address: 18 and 19 agrees with any combination as shown below.

NTSC model

| Address | Da | ita |
|---------|----|-----|
| 18 | 72 | 16 |
| 19 | F8 | 5C |

| PAL | model |
|-----|-------|
| | |

| • | 1712 1110401 | |
|---|--------------|------|
| Į | Address | Data |
| ſ | 18 | A7 |
| ſ | 19 | CC |

11) When the playback system from IC1600 (SFD) to IC1501 (VFD) is normal, the display data (combination data) of page: 3, address: 1A and 1B agrees with any combination as shown below.

NTSC model

| Address | Data |
|---------|------|
| 1A | 12 |
| 1B | 43 |

| PAL | mode |
|-----|------|
|-----|------|

| Address | Data |
|---------|------|
| 1A | 90 |
| 1B | CE |

- 12) Select page: C, address: AC, set data: 20, and press the PAUSE
- 13) Select page: C, address: AD, set data: 00, and press the PAUSE button.
- 14) Select page: 0, address: 01, and set data: 00.

1-5. IC1501 (VFD) BIST (PB) Check

- Select page: 0, address: 01, and set data: 01.
- Select page: C, address: 60, set data: 06, and press the PAUSE button.

VBUS/EX BIST (PB) Check

- Select page: 3, address: 10, set data: 00, and press the PAUSE button.
- 4) Select page: 3, address: 12, set data: 10, and press the PAUSE
- Select page: 3, address: 12, set data: 00, and press the PAUSE button.
- Select page: 3, address: 13, set data: 04, and press the PAUSE
- When the playback system from IC1600 (SFD) to IC1501 (VFD) is normal, the display data (combination data) of page: 3, address: 14 and 15 agrees with any combination as shown

| NTSC model | |
|------------|------|
| Address | Data |
| 14 | 12 |
| 15 | 43 |

| PAL model | |
|-----------|------|
| Address | Data |
| 14 | 90 |
| 15 | CE |

When the playback system from IC1501 (VFD) to IC756 (HONEY) is normal, the display data (combination data) of page: 3, address: 16 and 17 agrees with any combination as shown below.

| NTSC | n | nodel | |
|--------|---|-------|---|
| Addres | S | Dat | • |

| Address | Data |
|---------|------|
| 16 | FB |
| 17 | F4 |

| PAL model | | |
|-----------|---------|------|
| Ŀ | Address | Data |
| I | 16 | 54 |
| ſ | 17 | ED |

• UPY Y BIST (PB) Check

- Select page: 3, address: 10, set data: 88, and press the PAUSE
- 10) Select page: 3, address: 12, set data: 10, and press the PAUSE button.
- 11) Select page: 3, address: 12, set data: 00, and press the PAUSE
- 12) Select page: 3, address: 13, set data: 04, and press the PAUSE button.
- 13) When the playback system from IC1501 (VFD) to IC5001, 5502 (LCD DRIVER) is normal, the display data (combination data) of page: 3, address: 16 and 17 agrees with any combination as shown below.

NTSC model Address Data 16 9A 17 13

| PAL model | |
|-----------|------|
| Address | Data |
| 16 | 03 |
| 17 | C9 |

• UPY Cr BIST (PB) Check

- 14) Select page: 3, address: 10, set data: 89, and press the PAUSE button.
- 15) Select page: 3, address: 12, set data: 10, and press the PAUSE button.
- 16) Select page: 3, address: 12, set data: 00, and press the PAUSE
- 17) Select page: 3, address: 13, set data: 04, and press the PAUSE button.
- 18) When the playback system from IC1501 (VFD) to IC5001, 5502 (LCD DRIVER) is normal, the display data (combination data) of page: 3, address: 16 and 17 agrees with any combination as shown below.

NTSC model

| MISO model | |
|------------|------|
| Address | Data |
| 16 | 1C |
| 17 | 60 |

| PAL | model |
|-----|-------|
|-----|-------|

| Address | Data |
|---------|------|
| 16 | 14 |
| 17 | A7 |

• UPY Cb BIST (PB) Check

- 19) Select page: 3, address: 10, set data: 8A, and press the PAUSE button.
- 20) Select page: 3, address: 12, set data: 10, and press the PAUSE
- 21) Select page: 3, address: 12, set data: 00, and press the PAUSE button.
- 22) Select page: 3, address: 13, set data: 04, and press the PAUSE button.
- 23) When the playback system from IC1501 (VFD) to IC5001, 5502 (LCD DRIVER) is normal, the display data (combination data) of page: 3, address: 16 and 17 agrees with any combination as shown below.

NTSC model

| Address | Data |
|---------|------|
| 16 | 92 |
| 17 | 5A |

PAL model

| Address | Data |
|---------|------|
| 16 | В8 |
| 17 | 67 |

• Preparation of ENC BIST (PB) Check

24) Select page: C, address: 51, set data: 0F, and press the PAUSE

• ENC Ya BIST (PB) Check

- 25) Select page: 3, address: 10, set data: 8B, and press the PAUSE
- 26) Select page: 3, address: 12, set data: 10, and press the PAUSE button.
- 27) Select page: 3, address: 12, set data: 00, and press the PAUSE
- 28) Select page: 3, address: 13, set data: 04, and press the PAUSE button.
- 29) When the playback system from IC1501 (VFD) to IC1402 (AOI) is normal, the display data (combination data) of page: 3, address: 16 and 17 agrees with any combination as shown below.

NTSC model

| Address | Data |
|---------|------|
| 16 | 3C |
| 17 | D2 |

DAI madai

| PAL model | |
|-----------|------|
| Address | Data |
| 16 | 69 |
| 17 | 21 |

• ENC Yb BIST (PB) Check

- 30) Select page: 3, address: 10, set data: 8C, and press the PAUSE button.
- 31) Select page: 3, address: 12, set data: 10, and press the PAUSE button.
- 32) Select page: 3, address: 12, set data: 00, and press the PAUSE button.
- 33) Select page: 3, address: 13, set data: 04, and press the PAUSE button.
- 34) When the playback system from IC1501 (VFD) to IC1402 (AOI) is normal, the display data (combination data) of page: 3, address: 16 and 17 agrees with any combination as shown below.

NTSC model

| MISC INduct | |
|-------------|------|
| Address | Data |
| 16 | 83 |
| 17 | 9E |

PAL model

| Address | Data |
|---------|------|
| 16 | CC |
| 17 | ED |

ENC Ca BIST (PB) Check

- 35) Select page: 3, address: 10, set data: 8D, and press the PAUSE button.
- 36) Select page: 3, address: 12, set data: 10, and press the PAUSE button.
- 37) Select page: 3, address: 12, set data: 00, and press the PAUSE button.
- 38) Select page: 3, address: 13, set data: 04, and press the PAUSE button.
- 39) When the playback system from IC1501 (VFD) to IC1402 (AOI) is normal, the display data (combination data) of page: 3, address: 16 and 17 agrees with any combination as shown below.

NTSC model

| Address Data | | ıta | |
|--------------|---|-----|----|
| 1 | 6 | FE | 22 |
| 1 | 7 | 68 | CA |

PAL model

| | I AL IIIOGOI | | |
|------------|--------------|-----|----|
| Address Da | | ıta | |
| | 16 | 70 | 43 |
| | 17 | D5 | E4 |

• ENC Cb BIST (PB) Check

- 40) Select page: 3, address: 10, set data: 8E, and press the PAUSE
- 41) Select page: 3, address: 12, set data: 10, and press the PAUSE button.
- 42) Select page: 3, address: 12, set data: 00, and press the PAUSE button.
- 43) Select page: 3, address: 13, set data: 04, and press the PAUSE button.
- 44) When the playback system from IC1501 (VFD) to IC1402 (AOI) is normal, the display data (combination data) of page: 3, address: 16 and 17 agrees with any combination as shown below.

NTSC model

| 1100 model | | |
|------------|----|-----|
| Address | Da | ıta |
| 16 | B2 | DE |
| 17 | E7 | EE |

| PAL model | | |
|-----------|----|-----|
| Address | Da | ita |
| 16 | ED | -9A |
| 17 | CB | 1E |

- 45) Select page: C, address: 51, set data: 03, and press the PAUSE
- 46) Select page: C, address: 60, set data: 0E, and press the PAUSE button.
- 47) Select page: 0, address: 01, and set data: 00.

2. Recording System Check

2-1. Preparations for recording

- 1) Playback the BIST check tape. (XH5-6(NTSC), XH5-6P(PAL))
- 2) Select page: 3, address: 10, set data: C0, and press the PAUSE
- Select page: 3, address: 11, set data: 07, and press the PAUSE 3) button.
- Enter the stop mode.
- While keep the HOLD switch of the adjusting remote commander at ON (SERVICE) position, eject the BIST check tape and insert a tape for recording in place of the tape.
- 6) Enter the camera recording mode.

Note: Perform the following checks in the camera recording mode.

2-2. IC1501 (VFD) BIST (REC) Check

- Select page: 3, address: 12, set data: 10, and press the PAUSE
- Select page: 3, address: 12, set data: 00, and press the PAUSE button.
- Select page: 3, address: 13, set data: 04, and press the PAUSE
- When the recording system from IC1501 (VFD) to IC1600 (SFD) is normal, the display data (combination data) of page: 3, address: 14 and 15 agrees with any combination as shown below.

NTSC model

| Address | Data |
|---------|------|
| 14 | D5 |
| 15 | 0B |

PAL model

| Addres | s Data |
|--------|--------|
| 14 | 34 |
| 15 | 8A |

2-3. IC1600 (SFD) BIST (REC) Check

- Select page: 0, address: 01, and set data: 01.
- Select page: C, address: AC, set data: 21, and press the PAUSE 2)
- Select page: C, address: AD, set data: 01, and press the PAUSE
- Select page: 3, address: 11, set data: 04, and press the PAUSE button.
- Select page: 3, address: 12, set data: 08, and press the PAUSE
- 6) Select page: 3, address: 12, set data: 00, and press the PAUSE
- Select page: 3, address: 13, set data: 03, and press the PAUSE button.
- When the recording system from IC1600 (SFD) to IC1602 (LIP) is normal, the display data (combination data) of page: 3, address: 16 and 17 agrees with any combination as shown below.

NTSC model

| Address | Dε | ata |
|---------|----|-----|
| 16 | 00 | BC |
| 17 | 15 | CE |

PAL model

| Address | Data | |
|---------|------|----|
| 16 | 2D | A2 |
| 17 | F5 | 7B |

When the recording system from IC1600 (SFD) to IC1601 (TFD) is normal, the display data (combination data) of page: 3, address: 18 and 19 agrees with any combination as shown below.

NTSC model

| Address | Da | ata |
|---------|----|-----|
| 18 | F7 | 4F |
| 19 | F6 | 69 |

PAL model

| Address | Data | |
|---------|------|----|
| 18 | 6C | 23 |
| 19 | C7 | 76 |

10) When the recording system from IC1501 (VFD) to IC1600 (SFD) is normal, the display data (combination data) of page: 3, address: 1A and 1B agrees with any combination as shown below.

NTSC model

| NIOO IIIOGCI | |
|--------------|------|
| Address | Data |
| 1A | D5 |
| 1B | 0B |

| PAL model | | |
|--------------|----|--|
| Address Data | | |
| 1A | 34 | |
| 1B | 8A | |

- 11) Select page: C, address: AC, set data: 20, and press the PAUSE button.
- 12) Select page: C, address: AD, set data: 00, and press the PAUSE
- 13) Select page: 0, address: 01, and set data: 00.

2-4. IC1601 (TFD) BIST (REC) Check

- Select page: 3, address: 40, set data: 0F, and press the PAUSE button.
- 2) Select page: 3, address: 40, set data: 00, and press the PAUSE
- When all recording system of IC1601 (TFD) is normal, the display data (combination data) of page: 3, address: 41 and 42 agrees with any combination as shown below.

NTSC model

| 11100 model | | |
|-------------|------|----|
| Address | Data | |
| 41 | C2 | A7 |
| 42 | 42 | DD |

PAL model

| Address | Data | |
|---------|------|----|
| 41 | 55 | 1A |
| 42 | В5 | 04 |

- Select page: 3, address: 40, set data: 03, and press the PAUSE button.
- Select page: 3, address: 40, set data: 00, and press the PAUSE 5) button.
- When the video recording system of IC1601 (TFD) is normal, the display data (combination data) of page: 3, address: 41 and 42 agrees with any combination as shown below.

| N15C model | | |
|------------|------|--|
| Address | Data | |
| 41 | BB | |
| 42 | 4E | |

| PAL model | | |
|-----------|------|--|
| Address | Data | |
| 41 | DC | |
| 42 | ED | |

- Select page: 3, address: 40, set data: 05, and press the PAUSE button.
- Select page: 3, address: 40, set data: 00, and press the PAUSE button.
- When the audio recording system of IC1601 (TFD) is normal, the display data (combination data) of page: 3, address: 41 and 42 agrees with any combination as shown below.

| NISC model | |
|------------|------|
| Address | Data |
| 41 | D7 |
| 42 | 23 |

| PAL model | | |
|-----------|------|--|
| Address | Data | |
| 41 | E4 | |
| 42 | 38 | |

- 10) Select page: 3, address: 40, set data: 09, and press the PAUSE button.
- 11) Select page: 3, address: 40, set data: 00, and press the PAUSE
- 12) When the subcode recording system of IC1601 (TFD) is normal, the display data (combination data) of page: 3, address: 41 and 42 agrees with any combination as shown below.

NTSC model

| | MIOC IIIOGEI | | |
|---------|--------------|------|--|
| Address | | Data | |
| | 41 | D9 | |
| | 42 | 3C | |

PAL model

| Address Data | | |
|--------------|----|--|
| 41 | 47 | |
| 42 | 27 | |

- 13) Select page: 3, address: 40, set data: 01, and press the PAUSE button.
- 14) Select page: 3, address: 40, set data: 00, and press the PAUSE button.
- 15) When the recording system from IC1601 (TFD) to IC1900 (TRX) is normal, the display data (combination data) of page: 3, address: 43 and 44 agrees with any combination as shown below.

NTSC model

| Address | | | |
|---------|----|----|--|
| 43 | 18 | C8 | |
| 44 | F0 | FB | |

PAL model

| Address | Data | |
|---------|------|----|
| 43 | F6 | A2 |
| 44 | 2A | E3 |

2-5. IC1900 (TRX) BIST (REC) Check

- 1) Select page: 3, address: 12, set data: 04, and press the PAUSE button.
- 2) Select page: 3, address: 12, set data: 00, and press the PAUSE button.
- 3) Select page: 3, address: 13, set data: 02, and press the PAUSE button.
- 4) When all recording system of IC1900 (TRX) is normal, the display data (combination data) of page: 3, address: 14 and 15 agrees with any combination as shown below.

NTSC model

| Address | Da | ıta |
|---------|----|-----|
| 14 | 96 | BC |
| 15 | D1 | 0E |

PAL model

| Address | Da | ita |
|---------|----|-----|
| 14 | 27 | B5 |
| 15 | 8D | 61 |

3-6. AUDIO SYSTEM ADJUSTMENTS

[Connection of Audio System Measuring Devices]

Connect the audio system measuring devices as shown in Fig. 5-3-11.

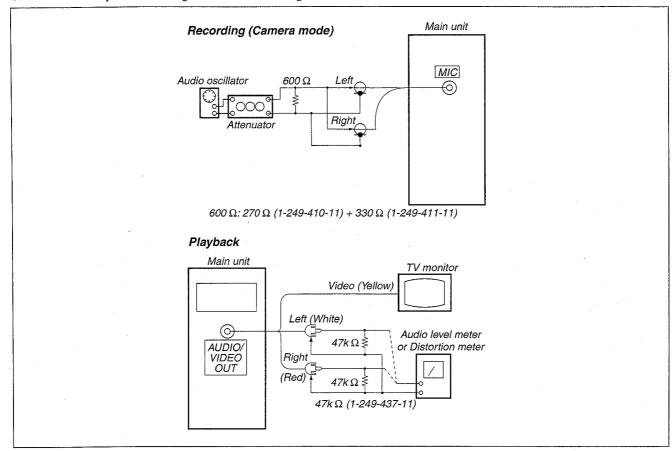


Fig. 5-3-11

1. Playback Level Check

| Mode | VTR playback |
|----------------------|--|
| Signal | Alignment tape: For audio operation check (XH5-3 (NTSC)) (XH5-3P (PAL)) |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack |
| Measuring Instrument | Audio level meter and frequency counter |
| Specified Value | 32 kHz mode: 1 kHz , $+3.0 \pm 2.0 \text{ dBs}$ 48 kHz mode: 1 kHz , $+3.0 \pm 2.0 \text{ dBs}$ 44.1 kHz mode: The 7.35 kHz signal level during EMP OFF is $+2.0 \pm 2.0 \text{ dBs}$. The 7.35 kHz signal level during EMP ON is $-6 \pm 2 \text{ dB}$ from the signal level during EMP OFF. |

Checking Method:

1) Check that the playback signal level is the specified value.

2. Overall Level Characteristics Check

| Mode | Camera recording and playback |
|----------------------|--|
| Signal | 400 Hz, -66 dBs signal: MIC jack left and right |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack |
| Measuring Instrument | Audio level meter |
| Specified Value | $-7.5 \pm 3.0 \text{ dBs}$ |

Checking Method:

- 1) Input the 400 Hz, -66 dBs signal in the MIC jack.
- 2) Record in the camera mode.
- 3) Playback the recorded section.
- 4) Check that the 400 Hz signal level is the specified value.

3. Overall Distortion Check

| Mode | Camera recording and playback |
|----------------------|--|
| Signal | 400 Hz, -66 dBs signal: MIC jack left and right |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack |
| Measuring Instrument | Audio distortion meter |
| Specified Value | Below 0.4 % (200 Hz to 6 kHz BPF ON) |

Checking Method:

- 1) Input the 400 Hz, -66 dBs signal in the MIC jack.
- 2) Record in the camera mode.
- 3) Playback the recorded section.
- 4) Check that the distortion is the specified value.

4. Overall Noise Level Check

| Mode | Camera recording and playback |
|----------------------|---|
| Signal | No signal: Insert a shorting plug in the MIC jack |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack |
| Measuring Instrument | Audio level meter |
| Specified Value | Below –45 dBs (IHF-A filter ON, 20 kHz LPF ON) |

Checking Method:

- 1) Insert a shorting plug in the MIC jack.
- 2) Record in the camera mode.
- 3) Playback the recorded section.
- 4) Check that the noise level is the specified value.

5. Overall Separation Check

| Mode | Camera recording and playback |
|----------------------|---|
| Signal | 400 Hz, -66 dBs signal: MIC jack <right> [left] (Connect the MIC jack <left> [right] to GND)</left></right> |
| Measurement Point | Audio <left> [right] terminal of AUDIO VIDEO jack</left> |
| Measuring Instrument | Audio level meter |
| Specified Value | Below -40 dBs (IHF-A filter ON) |

<>: Left channel check

[]: Right channel check

Checking Method:

- 1) Input the 400 Hz, -66 dBs signal in the <right> [left] terminal of the MIC jack only.
- 2) Record in the camera mode.
- 3) Playback the recorded section.
- 4) Check that the signal level of the audio <left> [right] terminal is the specified value.

5-4. SERVICE MODE

4-1. ADJUSTMENT REMOTE COMMANDER

The adjustment remote commander is used for changing the calculation coefficient in signal processing, EVR data, etc. The adjustment remote commander performs bi-directional communication with the unit using the remote commander signal line (LANC). The resultant data of this bi-directional communication is written in the non-volatile memory.

1. Using the Adjustment Remote Commander

- Connect the adjustment remote commander to the LANC terminal.
- Set the HOLD switch of the adjustment remote commander to "HOLD" (SERVICE position). If it has been properly connected, the LCD on the adjustment remote commander will display as shown in Fig. 5-4-1.



Fig. 5-4-1

- 3) Operate the adjustment remote commander as follows.
 - Changing the page
 The page increases when the EDIT SEARCH+ button is
 pressed, and decreases when the EDIT SEARCH- button is
 pressed. There are altogether 16 pages, from 0 to F.

| Hexadecimal notation | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | В | С | D | Е | F |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| LCD Display | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 7 | В | 9 | Я | Ь | ے | d | Ε | F |
| Decimal notation conversion value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

· Changing the address

The address increases when the FF ($\blacktriangleright \blacktriangleright$) button is pressed, and decreases when the REW ($\blacktriangleleft \blacktriangleleft$) button is pressed. There are altogether 256 addresses, from 00 to FF.

- Changing the data (Data setting)
 The data increases when the PLAY (►) button is pressed, and decreases when the STOP (■) button is pressed. There are altogether 256 data, from 00 to FF.
- Writing the adjustment data
 The PAUSE button must be pressed to write the adjustment data (B, C, D, F page) in the nonvolatile memory. (The new adjusting data will not be recorded in the nonvolatile memory if this step is not performed.)
- 4) After completing all adjustments, turn off the main power supply (8.4V) once.

2. Precautions Upon Using the Adjustment Remote Commander

Mishandling of the adjustment remote commander may erase the correct adjustment data at times. To prevent this, it is recommended that all adjustment data be noted down before beginning adjustments and new adjustment data after each adjustment.

4-2. DATA PROCESS

The calculation of the DDS display and the adjustment remote commander display data (hexadecimal notation) are required for obtaining the adjustment data of some adjustment items. In this case, after converting the hexadecimal notation to decimal notation, calculate and convert the result to hexadecimal notation, and use it as the adjustment data. Indicates the hexadecimal-decimal conversion table.

| xadecimal-deci | mai C | onver | SION | able | | | | | | | | | | 2 | | |
|----------------------------|-------|-------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lower digit of hexadecimal | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | В | С | D | ·Ε | F |
| Upper digit of hexadecimal | | | | | | | | | | | (日) | (円) | (_) | (占) | (E) | (/ |
| 0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 |
| 1 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 3 |
| 2 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | . 4 |
| 3 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 6 |
| 4 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 77 | 76 | 77 | 78 | 7 |
| 5 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 9 |
| 6 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 1 |
| 7 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 1 |
| 88 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 1 |
| 9 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 1 |
| A (A) | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 1 |
| B (b) | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 1 |
| C (c) | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 2 |
| D (d) | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 2 |
| E (<u>E</u>) | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 2: |
| F (F) | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 2: |

Note: The characters shown in the parenthesis () shown the display on the adjustment remote commander.

(Example) If the DDS display or the adjustment remote commander shows BD (bd);

Because the upper digit of the adjustment number is B (β), and the lower digit is D (β), the meeting point "189" of ① and ② in the above table is the corresponding decimal number.

Table. 5-4-1

4-3. SERVICE MODE

1. Setting the Test Mode

| Page D | Address 10 | |
|--------|------------|--|
| | | |

| Data | Function |
|------|------------------------------|
| 00 | Normal |
| 01 | Forced camera power ON |
| 02 | Forced VTR power ON |
| 03 | Forced camera + VTR power ON |
| 05 | Forced memory power ON |

- Before setting the data, select page: 0, address: 01, and set data: 01.
- For page D, the data set is recorded in the non-volatile memory by pressing the PAUSE button of the adjustment remote commander. In this case, take note that the test mode will not be exited even when the main power is turned off (8.4Vdc).
- After completing adjustments/repairs, be sure to return the data of this address to 00, and press the PAUSE button of the adjustment remote commander.

Select page: 0, address: 01, and set data: 00.

2. Emergence Memory Address

| Page C | Address 38 to 43 |
|--------|------------------|
| | |

| Address | Contents |
|---------|--|
| 38 | EMG code when first error occurs |
| 2.4 | Upper: MSW code when shift starts when first |
| 3A | Lower: MSW code when first error occurs |
| 3B | Lower: MSW code to be moved when first error occurs |
| 3C | EMG code when second error occurs |
| 3E | Upper: MSW code when shift starts when second error occurs Lower: MSW code when second error occurs |
| 3F | Lower: MSW code to be moved when second error occurs |
| 40 | EMG code when last error occurs |
| 42 | Upper: MSW code when shift starts when last error occurs Lower: MSW code when last error occurs |
| 43 | Lower: MSW code to be moved when last error occurs |

When no error occurs in this unit, data "00" is written in the above addresses (38 to 43). when first error occurs in the unit, the data corresponding to the error is written in the first emergency address (38 to 3B). In the same way, when the second error occurs, the data corresponding to the error is written in the second emergency address (3C to 3F). Finally, when the last error occurs, the data corresponding to the error is written in the last emergency address (40 to 43).

Note: After completing adjustments, be sure to initialize the data of addresses 38 to 43 to "00".

Initializing method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: C, address: 38, set data: 00, and press the PAUSE button.
- 3) Select address: 39 to 43 and set data: "00" into them in same way as in address: 38.
- 4) Select page: 0, address: 01, and set data: 00.

2-1. EMG Code (Emergency Code)

Codes corresponding to the errors which occur are written in addresses 38, 3C and 40. The type of error indicated by the code are shown in the following table.

| Code | Emergency Type |
|------|--|
| 00 | No error |
| 10 | Loading motor emergency during loading |
| 11 | Loading motor emergency during unloading |
| 22 | T reel emergency during normal rotation |
| 23 | S reel emergency during normal rotation |
| 24 | T reel emergency (Short circuit between S reel terminal and T reel terminal) |
| 30 | FG emergency at the start up of the capstan |
| 40 | FG emergency at the start up of the drum |
| 42 | FG emergency during normal rotation of the drum |

2-2. MSW Code

MSW when errors occur:

Information on MSW (mode SW) when errors occur

MSW when movement starts:

Information on MSW when movements starts when the mechanism position is moved (When the L motor is moved)

MSW of target of movement:

Information on target MSW of movement when the mechanism position is moved

Mechanical Position

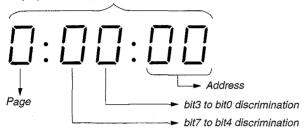
| ← | - UNLO | OAD | | | | | | | | | | | | | | LOAD - | > |
|----------|-------------|-----------------------------|---------|---------------|----|-------------|----|----------------|----|----|------|------------------|----------|----------------|-------------|-------------|----------------------|
| Ε | EJECT | BL | ULE | BL | SR | BL | HL | BL | LE | BL | STOP | BL | RP | BL | REW | BL |] |
| | | | | | _ | | | | 0 | _ | 0 | | _ | | | | ¬ A (LSB) |
| i | _ | ! | 0 | <u> </u> | 0 | | 0 | <u> </u> | | | 0 | _ | | <u> </u> | | k | ⊸ B |
| 1 | _ | | | | _ | | 0 | | _ | _ | | | 0 | - | 0 | | ← C |
| 1 | 0 | - | 0 | } | | | | <u> </u> | | _ | ; - | ¦ - ' | | | 0 | | ├ ⊸ ─ D (MSB) |
| I I | II | 11 | II. | 11, | 11 | 11 | 11 | | П | 11 | H | | 11 | | H | Н | 1 |
| 1 | 7 | T | S | ្កា | D | TT : | 9 | i mi | П | П | C | П | Φ. | ָּרָר <u>:</u> | ω | TI | |
| i | | 1 i | | i i | | | | ! ! L ! | | | | | | ! ! | ! | | 1 |
| 1 | | LS Chassis movement section | | | | | | | | | | - | | | | -{ | |
| l L | | <i>}</i> ! | | | | | | | | | | | ! | Pincr | roller pre | essing | 1 |
| Ų | | İ | | | | | | | | | | | | - | | | .i _i |
| | ock rele | | | | | | | | | | | | | | Tensio | n regulator | |
| -c | assette | comr | artment | | | | | | | | | | | | | | |

| Position | Code | Contents |
|----------|------|---|
| EJECT | 7 | Position at which the cassette component lock is released, at the farthest unload side mechanically at which the mechanism can move no further in the UNLOAD direction. |
| BL | F | BLANK code, at the boundary between codes. |
| USE | 5 | EJECT completion position. When the cassette is ejected, the mechanism will stop at this position. Cassette IN standby. The guide will start protruding out as the mechanism moves towards the LOAD position. |
| SR | D | Code during loading. |
| HL | 9 | Guide loading are performed here. |
| LE | Е | Current limiter turned off. |
| STOP | С | Stop position in the loading state. The pinch roller separates, the tension regulator returns, and the brake is imposed on both reels. |
| RP | В | PB, REC, CUE, PAUSE positions. When pinch roller is pressed, and the tension regulator is ON, the mechanism is operating at this position in modes in which normal images are shown. |
| REW | 3 | REW position. The tension regulator is half on. This position is not used except for the REW |

3. Bit Value Discrimination

Bit values must be discriminated using the display data of the adjustment remote commander for following items. Use the table below to discriminate if the bit value is "1" or "0".

Display on the adjustment remote commander



| Dis | play on the | | Bit v | alues | |
|-----|---------------------------------|--------------------|--------------------|--------------------|--------------------|
| | djustment remote ommander | bit3 or bit7 | bit2 or bit6 | bit1 or bit5 | bit0 or bit4 |
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 0 | 0 | 0 | 1 |
| | 2 | 0 | 0 | 1 | 0 |
| | 3 | 0 | 0 | 1 | . 1 |
| | 4 | 0 | 1 | 0 | 0 |
| | 5 | 0 | 1 | 0 | 1 |
| | 6 | 0 | 1 | 1 | 0 |
| | 7 | 0 | 1 | 1 | 1 |
| | 8 | 1 | 0 | 0 | 0 |
| | 9 | 1 | 0 | 0 | 1 |
| | A (月) | 1 | 0 | 1 | 0 |
| | В (Ь) | 1 | 0 | 1 | 1 |
| | C(_) | 1 | 1 | 0 | 0 |
| | D (d) | 1 | 1 | 0 | 1 |
| | E (<i>E</i>) | 1 | 1 | 1 | 0 |
| | F (F) | 1 | 1 | 1 | 1 |

Example: If "8E" is displayed on the adjustment remote commander, the bit values for bit7 to bit4 are shown in the (a) column, and the bit values for bit3 to bit0 are shown in the (b) column.

4. Switch Check (1)

| Page 2 | Address 43 |
|--------|------------|

| Bit | Function | When bit value=1 | When bit value=0 |
|-----|-----------------|------------------|------------------|
| 0 | VTR MODE SW | OFF | ON |
| 1 | CAM MODE SW | OFF | ON |
| 2 | START/STOP SW | OFF | ON |
| 3 | EJECT SW | OFF | ON |
| 4 | CC DOWN SW | OFF | ON |
| 5 | PHOTO FREEZE SW | OFF | ON |
| 6 | | | |
| 7 | PHOTO REC SW | OFF | ON |

Using method:

- 1) Select page: 2, address: 43.
- By discriminating the bit value of display data, the state of the switches can be discriminated.

5. Switch Check (2)

| 1 | | 111 (0) (7 |
|---|---------|------------------|
| ı | Page 2 | Address 60 to 67 |
| Ц | 1 450 2 | |

Using method:

1) Select page: 2, address: 60 to 67.

2) By discriminating the display data, the pressed key can be discriminated

| discriminated | | | | Data | | | |
|--|--|--|--|---|--|--|---------------------------------------|
| Address | 00 (00 to 0A) | 19 (0B to 24) | 32 (25 to 44) | 59 (45 to 6E) | 85 (4F to 9F) | B8 (A0 to D4) | EE (D5 to FF) |
| 60 (KEY AD0) (IC2204 93) | STOP (FK4880 block) (S800) | REW (FK4880 block) (S802) | PLAY (FK4880 block) (S804) | REC (FK4880 block) (S807, 808) | | | No key input |
| 61 (KEY AD1) (IC2204 ��) | PAUSE (FK4880 block) (S801) | FF (FK4880 block) (S803) | PHOTO REC (FK4880 block) (S811) | SELF TIMER (FK4880 block) (S805) | TC RESET (FK4880 block) (S809) | | No key input |
| 62 (KEY AD2) (IC2204 9) | FADER (ED-48 block) (S7000) | BACK LIGHT (ED-48 board) (S7001) | | EDIT SEARCH – (ED-48 board) (S7002) | EDIT SEARCH + (ED-48 board) (S7003) | | No key input |
| 63 (KEY AD3) (IC2204 ®) | EXPOSURE (FP-18, S103) | PROGRAM AE (FP-18, S102) | WHITE BALANCE (FP-18,S101) | SHUTTER (FP-18, S100) | AUTO LOCK HOLD (CK-80 board) (S7214) | AUTO LOCK AUTO (CK-80 board) (S7214) | (CK-80 board) (S7214) |
| 64 (KEY AD4) (IC2204 9) | TITLE (CK-80 board) (S7202) | DIGITAL EFFECT (CK-80 board) (S7205) | PICTURE EFFECT (CK-80 board) (S7208) | EXECUTE (CK-80 board) (S7219) | ZEBRA 100% (CK-80 board) (S7210) | ZEBRA 70% (CK-80 board) (S7210) | ZEBRA OFF (CK-80 board) (S7210) |
| 65 (KEY AD5) (IC2204 98) | END SEARCH (CK-80 board) (S7201) | DISPLAY (CK-80 board) (S7204) | MENU (CK-80 board) (S7207) | ND FILTER (FP-21, S702) | FOCUS INFINITY (FP-21, S700) | FOCUS AUTO (FP-21, S700,701) | |
| 66 (KEY AD6) (IC2204 99) | MEMORY + (CK-80 board) (S7200) | MEMORY – (CK-80 board) (S7203) | MEMORY INDEX (CK-80 board) (S7206) | MEMORY DELETE (CK-80 board) (S7209) | MEMORY PLAY (CK-80 board) (S7209) | PANEL REVERSE (FP-16, S001) | PANEL NORMAL (FP-16, S001) |
| 67 (KEY AD7) (IC2204 @) | PANEL BRIGHT + (FP-19, S503) | PANEL BRIGHT – (FP-19, S502) | VOLUME + (FP-19, S501) | VOLUME – (FP-19, S500) | DATA CODE (CK-80 board) (S7212) | PANEL CLOSE (FP-16, S002) | PANEL OPEN (FP-16, S001) |

6. Record of Use Check

| Page 2 | Address A2 to AA |
|-----------|------------------|
| 1 1 8 1 - | |

| Address | Function | | Remarks |
|---------|---------------------------------------|----------|--|
| A2 | | Minutes | |
| A3 | Drum rotation counted time (BCD code) | Hour (L) | 10th place digit and 1st place digit of counted time (decimal digit) |
| A4 | 1 – | Hour (H) | 1000th place digit and 100th place digit of counted time (decimal digit) |
| A5 | | Year | |
| A6 | User initial power on date (BCD code) | Month | After setting the clock, set the date of power on next. |
| A7 | | Day | |
| A8 | | Year | |
| A9 | Final condensation occurrence date | Month | |
| AA | (BCD code) | Day | |

Using method:

1) The record of use data is displayed at page: 2, addresses: A2 to AA.

Note: This data will be erased when the coin lithium battery (CK-80 board BT7200) is removed (reset).

SECTION 6 REPAIR PARTS LIST

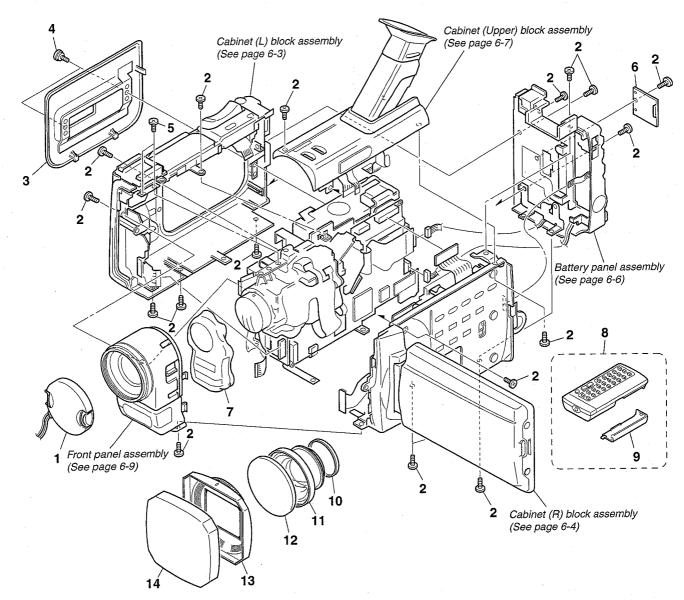
6-1. EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation CND: Canadian model

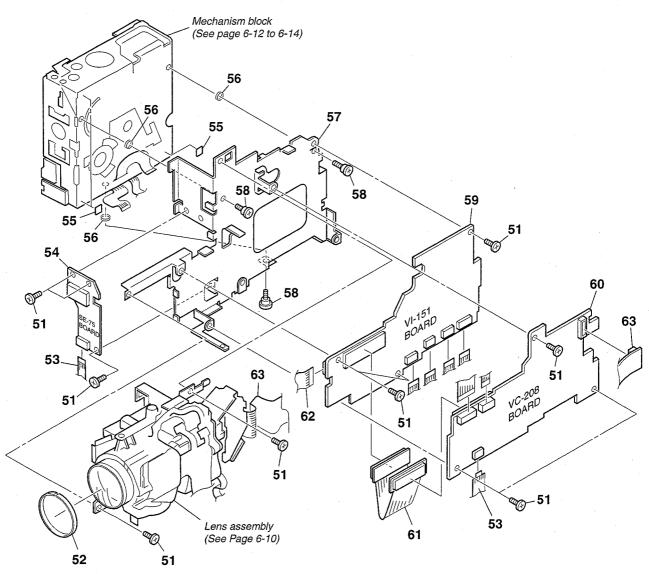
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

6-1-1. OVERALL SECTION



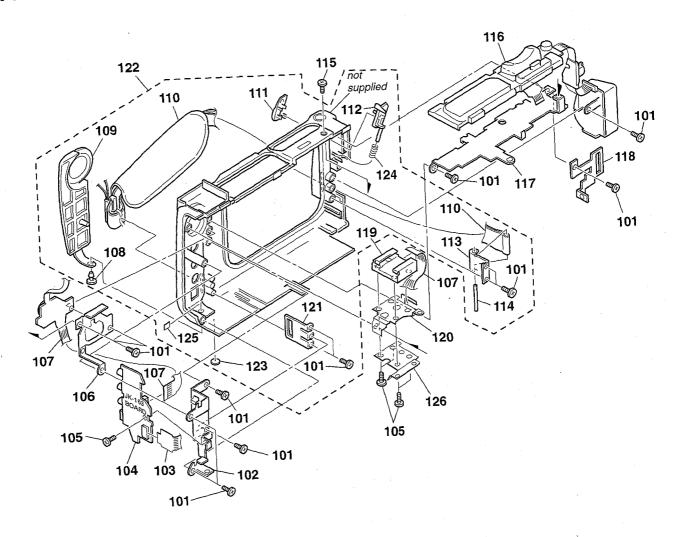
| Ref. No. | Part No. | <u>Description</u> | <u>Remarks</u> | Ref. No. | Part No. | Description | Remarks |
|-----------------------|------------------------------|---|----------------|--------------------------|--|---|---------|
| 1 2 3 4 5 | X-3948-999-1 3-989-746-01 | CAP ASSY, LENS SCREW (M2), LOCK ACE, P2 LID ASSY, CASSETTE SCREW (M2 STEP) SCREW (M2), LOCK ACE, P2 | | 8 9 10 11 12 | 3-053-056-01 3-053-549-01 3-052-859-01 | REMOTE COMMANDER (RMT-811) LID, BATTERY CASE CAP, WIDE CONVERSION (58.5 Ø) CONVERSION, WIDE CAP, WIDE CONVERSION (85 Ø) | |
| 6 7 | 3-051-885-01 3-052-033-01 | COVER, CPC SHEET, ACOUSTIC ISOLATION | | 13 14 | 3-052-849-01 3-053-551-01 | LID, HOOD CAP, HOOD | |

6-1-2. MECHANISM FRAME SECTION



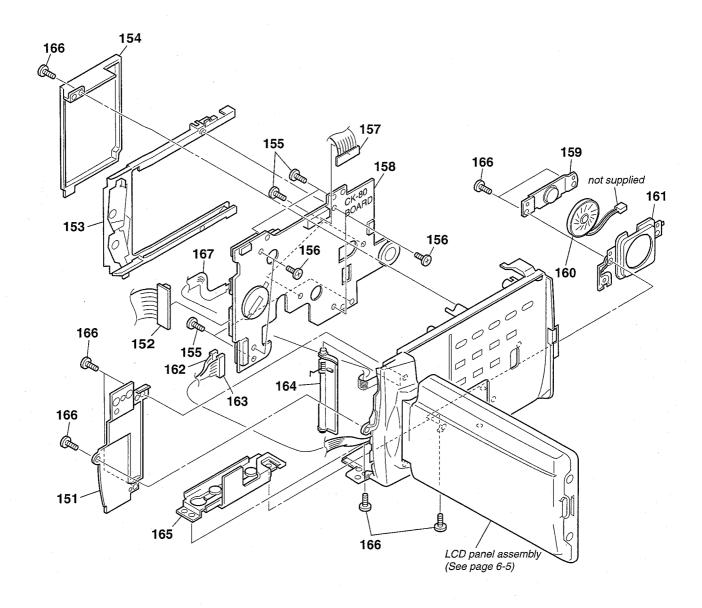
| Ref. No. | Part No. | <u>Description</u> | <u>Remarks</u> | Ref. No. | Part No. | <u>Description</u> | <u>Remarks</u> |
|------------------------|--|--|----------------|----------------------------|--|---|----------------|
| 51 * 52 53 54 | 3-052-621-01 1-670-982-11 A-7073-675-A | SCREW (M2), LOCK ACE, P2 CUSHION, LENS FP-14 FLEXIBLE BOARD SE-75 BOARD, COMPLETE SHEET, VIBRATION PROOF | | 58 59 59 60 61 | A-7094-065-A A-7094-121-A A-7093-974-A | SCREW (M2), STEP VI-151(D) BOARD, COMPLETE (PD10 VI-151(D) BOARD, COMPLETE (PD10 VC-208 BOARD, COMPLETE FP-8 FLEXIBLE BOARD | , |
| * 56 57 | 3-052-802-01 | PIN, MD GROUND FRAME ASSY, MD | | 62 63 | 1-670-980-11 | FP-12 FLEXIBLE BOARD CD-202 BOARD, COMPLETE | |

6-1-3. CABINET (L) SECTION



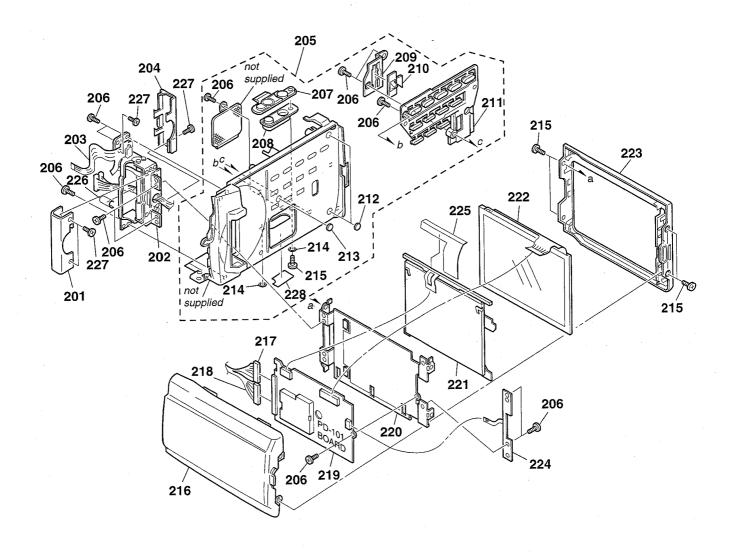
| Ref. No. 101 102 103 104 105 | 3-051-902-01 | FP-11 FLEXIBLE BUARD JK-163 BOARD, COMPLETE SCREW (M2), LOCK ACE, P2 SHEET METAL, S TERMINAL | <u>Remarks</u> | Ref. No. 115 116 117 118 119 120 121 122 | 3-968-729-01 1-475-949-21 | CABINET (L) ASSY (US,UND) | |
|---------------------------------|--|--|----------------|---|--|---------------------------|--|
| 108 110 | 3-051-930-01 3-051-873-01 3-051-899-01 | PIN, JACK BELT, GRIP | | 122 * 123 | X-3949-144-1 3-051-944-01 | CABINET (L) ASSY (AEP) | |
| 109 111 112 113 114 | 3-051-864-01 3-051-865-01 3-051-866-01 3-703-357-08 | BUTTON, EJECT LOCK, EJECT BRACKET (REAR), BELT | | 124 * 125 126 | 3-302-492-00 3-052-738-01 3-053-541-01 | SPACER (JC) | |

6-1-4. CABINET (R) SECTION



| Ref. No. | Part No. | Description | <u>Remarks</u> | Ref. No. | Part No. | <u>Description</u> | <u>Remarks</u> |
|----------|-----------------------|----------------------------|----------------|----------|-----------------------|--------------------------|----------------|
| * 151 | 3-051 - 920-01 | LID, LCD HINGE | | 160 | 1-505-619-11 | SPEAKER (2.0 CM) | |
| 152 | 1-670-981-21 | FP-13 FLEXIBLE BOARD | | * 161 | 3-051-906-01 | HOLDER, SP | |
| 153 | 3-052-482-01 | EJECTOR, CARD | | 162 | 1-958-983-11 | HARNESS (CP-81) 12PIN | |
| * 154 | 3-051-918-01 | COVER, PM | | 163 | 1-958-984-11 | HARNESS (CP-82) 13PIN | |
| 155 | 3-989-735-41 | SCREW (M1.7), LOCK ACE, P2 | | 164 | X-3949-119-1 | PLATE ASSY, BLIND | |
| 156 | 3-051-931-01 | ACE (M2), LOCK | | 165 | X-3948-945-1 | SLIDE ASSY, PM | |
| 157 | 1-670-977-21 | FP-9 FLEXIBLE BOARD | | 166 | 3-968-729-01 | SCREW (M2), LOCK ACE, P2 | |
| 158 | A-7073-678-A | CK-80 BOARD, COMPLETE | | 167 | 1 - 670-983-21 | FP-16 FLEXIBLE BOARD | |
| * 159 | X-3948-943-1 | PLATE ASSY, SP FIXED | | | | | |

6-1-5. LCD PANEL SECTION



| | | | | | | | _ |
|----------|---------------------------|--------------------------|----------------|-------------|--------------|---------------------------------|----------------|
| Ref. No. | Part No. | Description | <u>Remarks</u> | Ref. No. | Part No. | Description | <u>Remarks</u> |
| 201 | 3-051-921-11 | COVER (FRONT), HINGE | | 215 | 3-968-729-01 | SCREW (M2), LOCK ACE, P2 | |
| 201 | X-3948-944-1 | HINGE ASSY | | 216 | X-3949-113-1 | CABINET (C) ASSY, P | |
| 202 | 1-670-983-21 | FP-16 FLEXIBLE BOARD | | · 217 | 1-958-983-11 | HARNESS (CP-81) | |
| 203 | 3-051-922-11 | COVER (REAR), HINGE | | 218 | 1-958-984-11 | HARNESS (CP-82) | |
| 204 | X-3949-110-1 | CABINET (R) ASSY | | 219 | A-7073-679-A | PD-101 BOARD, COMPLETE | |
| 200 | 7 0040 110 1 | 5/15/1121 (H) / 1001 | | | | | |
| 206 | 3-968-729-51 | SCREW (M2), LOCK ACE, P2 | | 220 | X-3948-961-1 | FRAME ASSY, PANEL | |
| 207 | 3-051-840-01 | SCREW, TRIPOD | | △221 | 1-517-754-21 | TUBE, FLUORESCENT, COLD CATHODI | Ξ |
| 208 | 3-051-842-01 | HOLDER, TRIPOD SCREW | | 222 | 1-803-274-21 | MODULE, CRYSTAL INDICATION | |
| 209 | 3-051-839-01 | COVER, SS MODE KNOB | | 223 | X-3949-114-1 | CABINET (M) ASSY, P | |
| 210 | 3-051-835-01 | KNOB. SS MODE | | 224 | 1-670-986-21 | FP-19 FLEXIBLE BOARD | |
| 210 | 0 001 000 01 | (4.05, 00 1 | | | | | |
| 211 | 3-051-834-01 | BUTTON, R | | * 225 | 3-051-932-01 | COVER, LIGHT GUIDE FLEXIBLE | |
| 212 | 3-959-978-02 | CUSHION, PANEL | | * 226 | 3-846-067-21 | SPACER (C) | |
| 212 | 3-052-521-01 | CUSHION (2), PANEL | | 2 27 | 3-989-735-41 | SCREW (M1.7), LOCK ACE, P2 | |
| 213 | 3-051-848-01 | WASHER, TRIPOD SCREW | | 228 | 3-052-895-01 | BLIND, STAND | |
| 214 | 0-001-0 1 0 01 | WHOMEN, I'M OD COMEN | | • | | | |

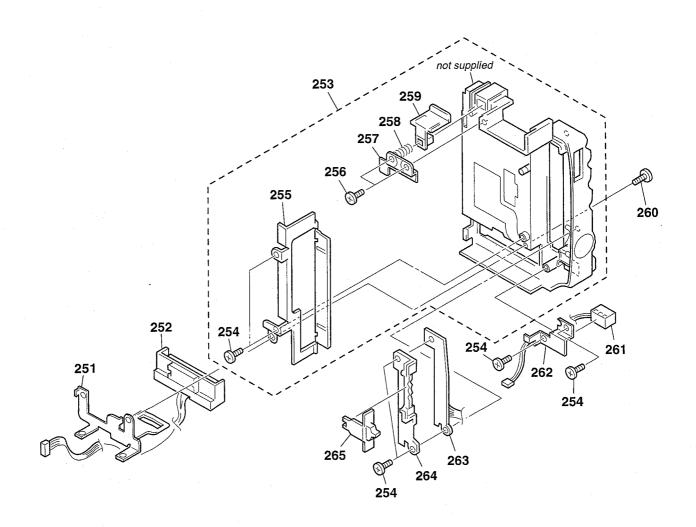
Note:

Note:
The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Note:

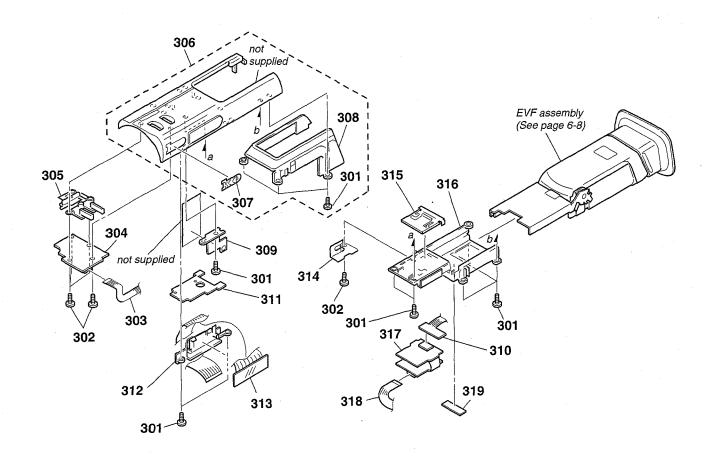
Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1-6. BATTERY PANEL SECTION



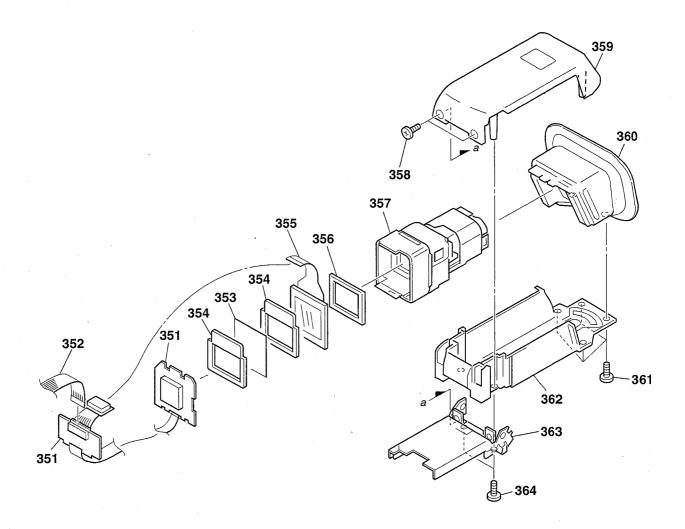
| Ref. No. | Part No. | Description | <u>Remarks</u> | Ref. No. | Part No. | <u>Description</u> | Remarks |
|----------|--------------|----------------------------|----------------|----------|--------------|--------------------------|---------|
| 251 | 3-051-905-01 | SHEET METAL (LOWER), STRAP | | 259 | 3-051-950-01 | CLAW, BT LOCK | |
| 252 | | TERMINAL BOARD, BATTERY | | 260 | 3-968-729-01 | SCREW (M2), LOCK ACE, P2 | |
| 253 | X-3949-001-1 | PANEL ASSY, BATTERY | | | | | |
| 254 | 3-948-339-01 | SCREW, TAPPING | | 261 | 1-785-247-11 | CONNECTOR, DC-IN | |
| 255 | X-3948-957-1 | DOOR ASSY, PM | | 262 | 3-051-915-01 | PLATE, DC FIXED | |
| | | | | 263 | 1-670-985-21 | FP-18 FLEXIBLE BOARD | |
| 256 | 3-713-791-71 | SCREW (M1.7X4) | | 264 | 3-051-917-01 | HOLDER, AL KNOB | |
| 257 | 3-051-951-01 | COVER, BT LOCK | | 265 | 3-051-916-01 | KNOB, AL | |
| 258 | 3-052-017-01 | SPRING, BT LOCK | | | | | |

6-1-7. CABINET (UPPER) SECTION



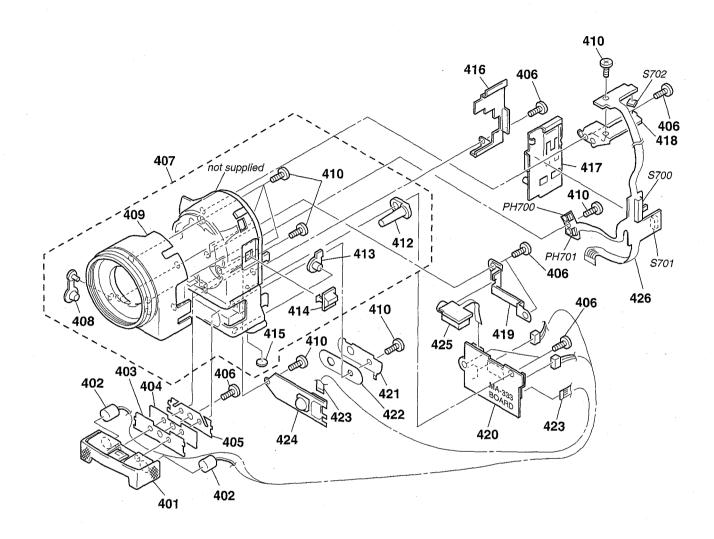
| Ref. No. | Part No. | Description | <u>Remarks</u> | Ref. No. | Part No. | Description | <u>Remarks</u> |
|----------|--------------|--------------------------|----------------|----------|---------------|------------------------------|----------------|
| 301 | 3-968-729-01 | SCREW (M2), LOCK ACE, P2 | | 311 | 3-051-894-01 | RETAINER, SLIDER | |
| 302 | 3-968-729-51 | SCREW (M2), LOCK ACE, P2 | 1 | * 312 | 3-051-893-01 | RETAINER, LCD | |
| 303 | 1-670-984-11 | FP-17 FLEXIBLE BOARD | | 313 | A-7093-972-A | PANEL BLOCK ASSY, INDICATION | |
| 304 | A-7073-684-A | ED-48 BOARD, COMPLETE | | * 314 | 3-051-898-01 | PLATE, SLIDER GROUND | |
| 305 | 3-051-892-01 | BUTTON, EDIT | | 315 | 3-051-923-01 | PLATE, VF CLICK | |
| | | | | • | | | |
| 306 | X-3949-111-1 | CABINET (UPPER) ASSY | | 316 | 3-051-897-01 | BASE, VF SLIDE | |
| 307 | 3-963-933-01 | EMBLEM, CCD | - | 317 | A-7073-682-A | VF-121 BOARD, COMPLETE | |
| * 308 | 3-051-869-01 | COVER, SIDE | | 318 | .1-670-978-11 | FP-10 FLEXIBLE BOARD | |
| * 309 | 3-051-895-01 | JOINT, U-R | | 319 | 3-831-441-11 | CUSHION | |
| 310 | 1-670-987-21 | FP-20 FLEXIBLE BOARD | | | | | |
| | | | | | | | |

6-1-8. EVF SECTION



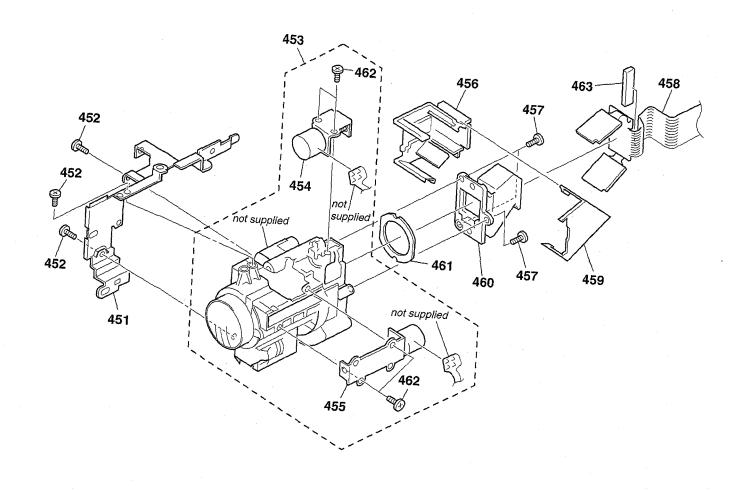
| Ref. No. | Part No. | <u>Description</u> | <u>Remarks</u> | Ref. No. | Part No. | <u>Description</u> | <u>Remarks</u> |
|---------------------|--------------|--|----------------|-------------------|--------------|--|----------------|
| 351 352 * 353 | 1-670-987-21 | LB-55 BOARD, COMPLETE FP-20 FLEXIBLE BOARD ILLUMINATOR (458), BL | | 358 359 360 | 3-051-896-01 | SCREW (M2), LOCK ACE, P2 CABINET (UPPER), EVF EYE CUP ASSY | |
| 354 355 | | CUSHION (458), LCD | | 361 362 | 3-713-791-01 | SCREW (M1.7X5), TAPPING, P2 CABINET (LOWER) ASSY, EVF | |
| * 356 357 | | CUSHION (1), LCD LENS ASSY (458), VF | | 363 364 | | SLIDER ASSY, VF SCREW (M1.7X8), TAPPING, P2 | |

6-1-9. FRONT PANEL SECTION



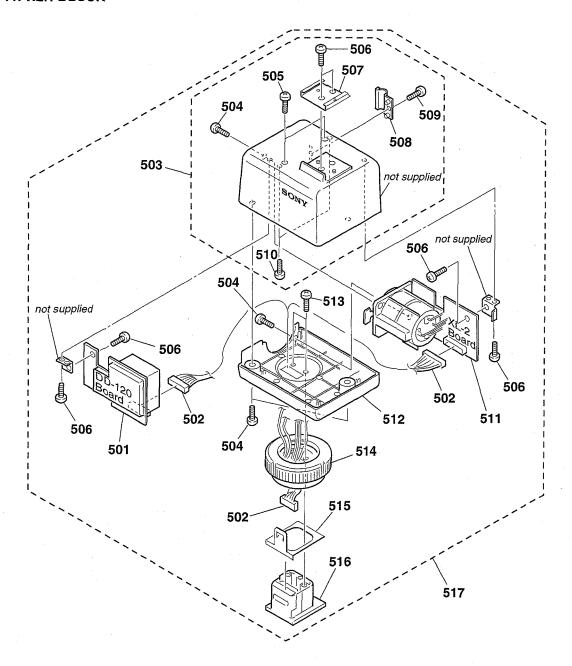
| Ref. No. | Part No. | <u>Description</u> | Remarks | Ref, No. | Part No. | Description | Remarks |
|-----------------------------------|--|---|---------|-------------------------------------|--|---|-------------|
| 401 402 403 * 404 405 | X-3948-950-1 1-418-014-11 3-051-926-01 3-051-927-01 3-051-928-01 | GRILLE ASSY, MICROPHONE MICROPHONE UNIT LID, MICROPHONE PLATE, MICROPHONE CLOSE UP PLATE, VIBRATION PROOF | | 418 * 419 420 * 421 422 | X-3948-954-1 3-051-887-01 A-7073-734-A 3-051-888-01 3-051-891-01 | RETAINER ASSY, ND RETAINER, JACK MA-333(D) BOARD, COMPLETE RETAINER, MICROPHONE CUSHION, MICROPHONE RETAINER | |
| 406 407 408 409 410 | 3-948-339-01 X-3949-112-1 3-051-942-01 3-051-907-21 3-968-729-51 | SCREW, TAPPING PANEL ASSY, FRONT LID, MICROPHONE JACK COVER, FRONT SCREW (M2), LOCK ACE, P2 | | 423 424 425 426 PH700 | A-7073-735-A 1-670-989-21 1-670-988-21 | FP-37 FLEXIBLE BOARD RI-10(D) BOARD, COMPLETE FP-22 FLEXIBLE BOARD FP-21 FLEXIBLE BOARD (Including \$700, \$10 | 3701, S702) |
| * 412 | 3-051-912-01 | TALLY, FRONT | | 111100 | | 1110 0NA1312N0130 | |
| * 413 | 3-051-940-01 | WINDOW, SIDE IR | | PH701 | 8-749-014-54 | HIC CNA1312K01S0 | |
| 414 | 3-051-935-01 | MF KNOB | | S700 | 1-771-487-21 | SWITCH, SLIDE | |
| * 415 | 3-051-944-01 | FOOT, RUBBER | ĺ | S701 | 1-762-851-21 | SWITCH, TACT | |
| * 416 | 3-051-929-01 | REINFORCEMENT, MF | | S702 | 1-762-851-21 | SWITCH, TACT | |
| 417 | X-3948-949-1 | RETAINER ASSY, MF | ļ | | | | |

6-1-10. LENS BLOCK SECTION



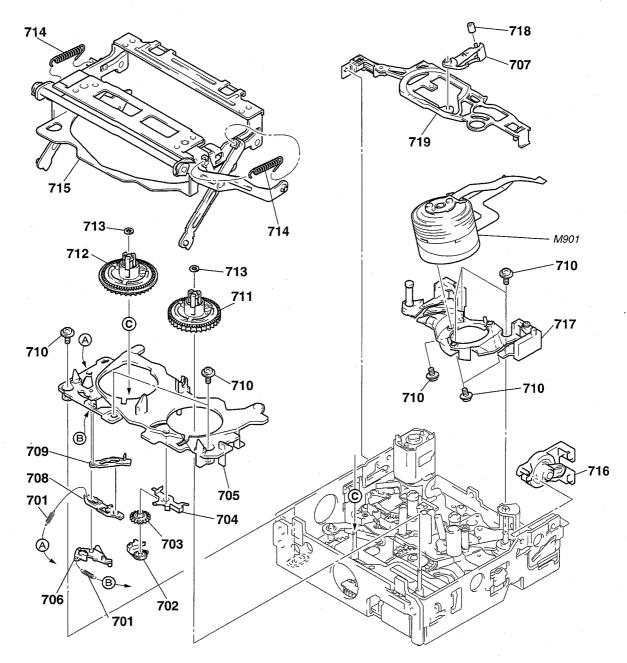
| Ref. No. | Part No. | Description | | | | | |
|------------|------------------------------|---|---------|------------|------------------------------|--|----------------|
| 451 452 | 3-051-924-01 | | Remarks | Ref. No. | Part No. | Description | Pamarica |
| 453 | 3-948-339-01 1-758-174-11 | LENS, ZOOM (VCL 4248VA) | 1 | 459 460 | X-3948-953-1 A-7093-999-A | COVER (R) ASSY PRISM | <u>Remarks</u> |
| 454 455 | 3-709-428-01 3-709-429-01 | WIUTUR, FOCUS | | | | (FD100) | • |
| | | MOTOR, ZOOM | | 460 | A-7030-948-A | (Including three CCD PRISM ASSY (PD100P) | • |
| 456 457 | X-3948-952-1 3-713-791-61 | COVER (L) ASSY, PRISM | | 461 462 | 3-989-731-01 | TO TO THE OLDER | imagers) |
| | | SCREW (M1.7X7), TAPPING, P2 CD-202 BOARD, COMPLETE | | | | SCREW (M1.7X3.5), TAPPING | |
| | | · · · · · · · · · · · · · · · · · · · | { ; | * 463 | 3-053-354-01 | CUSHION, CD FLEXIBLE | |

6-1-11. XLR BLOCK



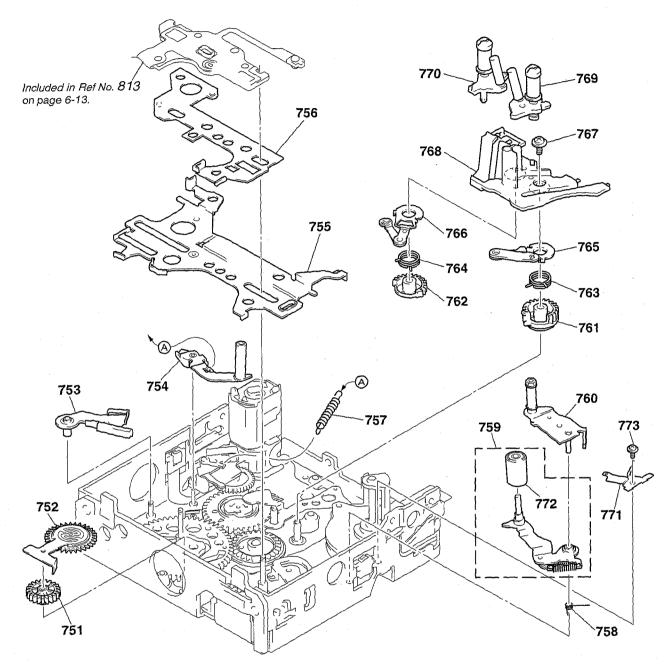
| Ref. No. | Part No. | <u>Description</u> | <u>Remarks</u> | Ref. No. | Part No. | Description | <u>Remarks</u> |
|---------------------------------|--|---|----------------|---------------------------------|--|---|----------------|
| 501 502 503 504 505 | 1-959-236-11 X-3949-116-1 7-627-854-38 | DD-120 MOUNT HARNESS (XL-51) BOX (UPPER) ASSY, TERMINAL SCREW,PRECISION +P 2.6X5 TYPE3 SCREW +B 3X8 | | 510 511 512 513 514 | A-7073-738-A 3-052-847-01 2-370-905-51 | SCREW (M1.7X3.5), SPECIAL HEAD XL-2 MOUNT BOX (LOWER), TERMINAL SCREW (B) (2X12), TAPPING RETAINER ASSY, SHOE | |
| 506 507 * 508 509 | 3-724-511-02 3-678-684-01 | SCREW (M2X3), LOCK ACE, P2 SHOE, ACCESSORY HOLDER, CABLE SCREW +P 2.6X4.0 | | 515 516 517 | 1-774-868-11 | PLATE ASSY, HOT SHOE PLUG, CONNECTOR 8P XLR BLOCK ASSY | |

6-1-12. CASSETTE COMPARTMENT, DRUM AND REEL TABLE ASSEMBLY



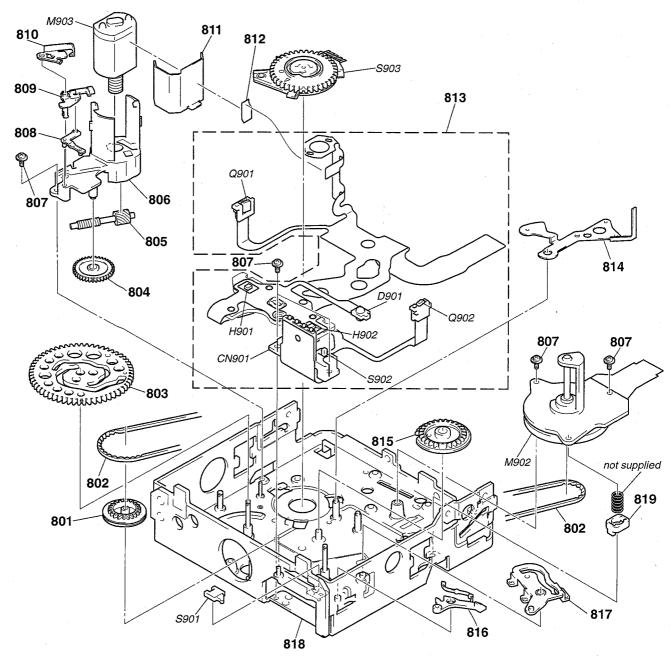
| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | <u>Remarks</u> |
|----------|--------------------------------|-------------------|---------|----------|-----------------------|---------------------------|----------------|
| 701 | 3-988-312-01 | SPRING, EXTENSION | | 711 | X-3948-445-1 | TABLE (T) ASSY, REEL | |
| 702 | 3-988-220-01 | BRAKE (T) | | 712 | X-3948-444-1 | TABLE (S) ASSY, REEL | |
| 703 | 3-988-221-01 | GEAR (T), BRAKE | | 713 | 3-989-465-01 | WASHER, STOPPER | |
| 704 | 3-988-222-01 | SPRING (T), BRAKE | | 714 | 3-988-298-01 | SPRING EXTENSION | |
| 705 | 3-988-215-02 | BASE, CASSETTE | | 715 | X-3948-441-2 | CASSETTE COMPARTMENT ASSY | |
| 706 | 3-988-217-01 | ARM (S), RESET | | 716 | X-3948-443-2 | DAMPER ASSY | |
| 707 | 3-988-281-02 | ARM, HC | | 717 | A-7093-612-A | DRUM BASE BLOCK ASSY | |
| 708 | 3-988-219-01 | RACK (S), BRAKE | | 718 | 3-988-282-01 | ROLLER, HC | |
| 709 | 3-988-218-01 | BRAKE (S) | | 719 | 3-988-283-01 | STOPPER, TAPE FALL | |
| 710 | 3 - 947 - 503-01 | SCREW (M1.4X2.5) | | M901 | A-7048-889 - A | DRUM ASSY (DEH-14B-R) | |

6-1-13. TAPE GUIDE, PINCH SLIDER ASSEMBLY AND BRAKE SLIDER ASSEMBLY



| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | <u>Remarks</u> |
|----------|--------------|----------------------------|---------|----------|--------------|-------------------------------|----------------|
| 751 | 3-988-263-01 | GEAR, RELAY | | 763 | 3-988-258-01 | SPRING (GLT), TORSION | |
| 752 | X-3948-442-2 | GEAR ASSY, GOOSENECK | | 764 | 3-988-253-01 | SPRING (GLS), TORSION | |
| 753 | X-3948-435-2 | PLATE ASSY, TG1 ADJUSTMENT | | 765 | X-3948-440-1 | ARM (T) ASSY, GL | |
| 754 | X-3948-434-1 | ARM ASSY, TG1 | | | • | | |
| 755 | X-3948-428-2 | SLIDER ASSY, PINCH | | 766 | X-3948-439-2 | ARM (S) ASSY, GL | |
| | | | | 767 | 3-947-503-01 | SCREW (M1.4X2.5) | |
| 756 | X-3948-766-1 | SLIDER ASSY, BRAKE | | 768 | 3-988-242-01 | RAIL, GUIDE | |
| 757 | 3-988-270-01 | SPRING (TG1), TENSION COIL | | 769 | X-3948-438-3 | COASTER (T) ASSY | |
| 758 | 3-988-233-01 | SPRING (TG7LD), TORSION | | 770 | X-3948-437-1 | COASTER (S) ASSY | |
| 759 | X-3948-433-2 | ARM ASSY, PINCH | | | | | |
| 760 | A-7093-501-A | ARM BLOCK ASSY, TG7 | | 771 | 3-988-690-02 | SPRING, TG7 RETAINER | |
| | | | | 772 | X-3748-630-2 | ROLLER ASSY (DIA. 5.6), PINCH | |
| 761 | 3-988-257-01 | GEAR (T), GL | | 773 | 3-053-083-01 | SCREW | |
| 762 | 3-988-252-02 | GEAR (S), GL | | | | | |
| | | | | | | · · | |

6-1-14. EACH GEARS AND LOADING / CAPSTAN MOTOR ASSEMBLY



| Ref. No. | Part No. | <u>Description</u> | <u>Remarks</u> | Ref. No. | Part No. | Description | <u>Remarks</u> |
|----------|--------------|---------------------------|----------------|----------|-----------------------|--------------------------------|----------------|
| 801 | 3-988-274-01 | PULLEY, CONVERSION | | 816 | 3-988-223-01 | ARM. EJECT | |
| 802 | 3-988-276-02 | BELT, TIMING | | 817 | 3-988-224-01 | ARM, PINCH PRESS | |
| 803 | 3-988-216-01 | GEAR, CAM | | 818 | X-3948-431-2 | CHASSIS ASSY | |
| 804 | 3-988-211-01 | GEAR, DECELERATION | | 819 | 3-050-170-01 | HOLDER | |
| 805 | 3-988-210-01 | SHAFT, WORM | | CN901 | 1-784-723-11 | PIN, CONNECTOR 4P | |
| 806 | 3-988-207-01 | HOLDER, MOTOR | | D901 | 8-719-067-13 | DIODE GL453K | |
| 807 | 3-947-503-01 | SCREW (M1.4X2.5) | | H901 | 8-719-061-28 | |)B) |
| 808 | 3-988-303-01 | ARM, SPRING HOOK DRIVING | | H902 | 8-719-061-28 | | , |
| 809 | 3-988-271-01 | BASE, SPRING HOOK FULCRUM | | M902 | 8-835-606-01 | MOTOR, DC SCD15A/C-NP (CAPSTAN | , |
| 810 | 3-988-302-01 | HOOK, TG1 SPRING | | M903 | X-3948-346-1 | MOTOR ASSY, L (LOADING) | , |
| 811 | 3-988-208-01 | SHIELD, MOTOR | | Q901 | 8-729-907-25 | PHOTO TRANSISTOR PT4850F (TAPE | END) |
| 812 | 1-657-785-11 | FP-248 FLEXIBLE BOARD | | Q902 | | PHOTO TRANSISTOR PT4850F (TAPE | |
| 813 | A-7073-418-A | FP-594 BOARD, COMPLETE | | S901 | 1-771-039-51 | | , |
| 814 | 3-988-280-03 | ARM, HC DRIVING | | S902 | 1 - 572-719-32 | | |
| 815 | 3-988-239-01 | GEAR, GL DRIVING | | S903 | 1-771-325-11 | ENCODER, ROTARY (SWITCH)(MODE |) |

6-2. ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

The components identified by mark Λ or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

Abbreviation

Canadian model

- · Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may
- have some difference from the original one.

 Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:

- RESISTORS All resistors are in ohms. METAL: metal-film resistor METAL OXIDE: Metal Oxide-film resistor F: nonflammable
- COILS uH: μH
- SEMICONDUCTORS In each case, u: μ , for example: uA...: μA..., uPA..., μPA..., uPB..., μ PB..., uPC..., μ PC...,

| | CND: | Canadian model | • | uF: μF | JRG. | | | uPD, μPD | |
|---|--------------|------------------------------|---|---------------|----------------|----------------|------------------------------|---|----------------|
| R | ef. No. | Part No. | Description | | <u>Remarks</u> | Ref. No. | Part No. | Description | <u>Remarks</u> |
| | | A-7073-676-A | CD-202 BOARD, COMPLE | | | | A-7073-678-A | CK-80 BOARD, COMPLETE *********************************** | |
| | | | · · · · · · · · · · · · · · · (| (Ref.No.:10,0 | | | | (Ref.No.:10,0 | 000 Series) |
| | | (IC100 | 0,101,102 is not included i | n this compl | ete board.) | | 3-051-919-01 | SHEET, LI PROTECTION | |
| | | | < CAPACITOR > | | | | | < BATTERY > | |
| | C100 | | CERAMIC CHIP 0.1uF | 10% 10% | 16V 16V | A PT7200 | 1_500_704_01 | BATTERY, V/L RICHARGEABL | |
| | C101 C102 | | CERAMIC CHIP 0.1uF CERAMIC CHIP 0.1uF | 10% | 16V | ZKD17200 | 1-320-124-21 | | |
| | C103 | | CERAMIC CHIP 0.1uF CERAMIC CHIP 0.1uF | 10% 10% | 16V 16V | ! | | < CAPACITOR > | |
| | C105 | | | | | C7200 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | 25V |
| | C106 C107 | 1-107-826-11 | CERAMIC CHIP 0.1uF TANTALUM CHIP 4.7uF | 10% 20% | 16V 10V | | | < CONNECTOR > | |
| | C108 | 1-113-994-11 | TANTAL. CHIP 6.8uF | 20% | 16V | | | | |
| | C110 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 20% | 16V 10V | 1 | 1-779-064-11 1-779-065-11 | | |
| | C111 | 1-135-210-11 | TANTALUM CHIP 4.7uF | 2076 | 100 | | 1-691-370-11 | CONNECTOR, FFC/FPC 6P | |
| | C112 | 1-164-360-11 | CERAMIC CHIP 0.1uF | | 16V | 1 | 1-766-336-21 | CONNECTOR, FFC/FPC 6P | , |
| | C115 | 1-113-994-11 | TANTAL. CHIP 6.8uF TANTALUM CHIP 4.7uF | 20% 20% | 16V 10V | CN7204 | 1-784-939-11 | CONNECTOR, BOARD TO BOARD 60F | |
| | C117 C118 | | TANTAL. CHIP 6.8uF | 20% | 16V | * CN7205 | 1-695-320-21 | PIN, CONNECTOR (1.5MM)(SMD) 2P | |
| | C119 | 1-164-360-11 | CERAMIC CHIP 0.1uF | | 16V | | 1-766-354-21 1-785-239-11 | CONNECTOR, FFC/FPC 24P CONNECTOR, EXTERNAL | |
| | | | < CONNECTOR > | | | | 1-764-680-21 | CONNECTOR, FFC/FPC (ZIF) 8P | |
| | CN100 | 1-785-433-21 | CONNECTOR, BOARD TO | BOARD 40F |) | | | < DIODE > | |
| | | | < COIL > | | | D7200 | 8-719-064-61 | DIODE 01BZA8.2(TE85L) | |
| | | | COOIL | | | D7201 | 8-719-064-61 | DIODE 01BZA8.2(TE85L) | |
| | L100 | | INDUCTOR 100uH | | | D7202 | 8-719-404-49 8-719-420-14 | DIODE MA111-TX DIODE MA8082-TX | |
| | L101 L102 | | INDUCTOR 100uH INDUCTOR 100uH | | | D7203 D7204 | | DIODE 01BZA8.2(TE85L) | |
| | | | <transistor></transistor> | | | D7206 | | DIODE 01BZA8.2(TE85L) | |
| | 0400 | 0 700 117 79 | TRANSISTOR 2SC4178 | _E13E1/L_T1 | | D7207 D7211 | 8-719-064-61 8-719-064-61 | DIODE 01BZA8.2(TE85L) DIODE 01BZA8.2(TE85L) | |
| | Q100 Q101 | 8-729-117-73 | TRANSISTOR 2SC4178 | -F13F14-T1 | | D7212 | 8-719-064-61 | DIODE 01BZA8.2(TE85L) | |
| | Q102 | | TRANSISTOR 2SC4178 | | | D7214 | 8-719-064-61 | DIODE 01BZA8.2(TE85L) | |
| | | | < RESISTOR > | | | D7215 | 8-719-064-61 | DIODE 01BZA8.2(TE85L) | |
| | R100 | 1-216-864-11 | METAL CHIP 0 | 5% | 1/16W | | | < 10 > | |
| | R101 | 1-216-864-11 | | 5% 5% | 1/16W 1/16W | 107200 | 8-759-494-53 | IC BU9729K-E2 | |
| | R102 R103 | 1-216-864-11 1-216-829-11 | METAL CHIP 0 METAL CHIP 4.7K | 5% 5% | 1/16W | 107200 | 0 100 404 00 | ,0 500/2011 12 | |
| | R104 | 1-216-829-11 | METAL CHIP 4.7K | 5% | 1/16W | | | < TRANSISTOR > | |
| | R105 | 1-216-829-11 | METAL CHIP 4.7K | 5% | 1/16W | Q7200 Q7201 | 8-729-230-63 8-729-804-41 | TRANSISTOR 2SD1819A-QRS-TX TRANSISTOR 2SB1122-ST-TD | |
| į | | | | | | 4,501 | 5 , 25 00 ; TI | | |

CK-80 DD-120

| Ref. No. | <u>Part No.</u> | Description | | | <u>Remarks</u> | Ref. No. | Part No. | <u>Description</u> | | | <u>Remarks</u> |
|-------------|-----------------|----------------|-----------|-----------|----------------|----------|--------------|--------------------|------------|------------|----------------|
| | , | < RESISTOR > | | | | | A-7073-737-A | DD-120 BOARD, | | | |
| R7200 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | | | | (Re | ef.No.:9,0 | 00 Series) |
| R7201 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | | | | ` | , | , |
| R7202 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | | < CAPACITOR > | | | |
| R7203 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | | | | | |
| R7204 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | C202 | 1-113-985-11 | TANTAL. CHIP | 10uF | 20% | 20V |
| 117 207 | 1 210 000 11 | 10121712 01111 | 1011 | 3,0 | ., | C203 | 1-164-156-11 | | 0.1uF | | 25V |
| R7205 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | C204 | 1-135-181-21 | TANTALUM CHIP | | 20% | 6.3V |
| R7205 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | C205 | 1-107-826-11 | | 0.1uF | 10% | 16V |
| | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | C206 | 1-107-826-11 | | 0.1uF | 10% | 16V |
| R7207 | 1-216-855-11 | METAL CHIP | 680K | 5% | 1/16W | 0200 | 1 107 020 11 | OLITAWIO OTIII | O. Tui | 1070 | 100 |
| R7208 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | C207 | 1-124-598-11 | ELECT | 22uF | 20% | 25V |
| R7209 | 1-210-004-11 | IVIL IAL OHIT | U | J /0 | 171000 | C210 | 1-110-618-11 | | 12uF | 20% | 63V |
| D70+0 | . 4 040 000 44 | MAETAL CUID | 1 01/ | E0/ | 1/16W | C210 | | CERAMIC CHIP | 0.1uF | 2070 | 50V |
| R7210 | 1-216-822-11 | METAL CHIP | 1.2K | 5% | | | | | | | |
| R7211 | 1-216-822-11 | METAL CHIP | 1.2K | 5% | 1/16W | C212 | | CERAMIC CHIP | 0.1uF | 000/ | 50V |
| R7212 | 1-216-822-11 | METAL CHIP | 1.2K | 5% | 1/16W | C213 | 1-110-618-11 | ELECT | 12uF | 20% | 63V |
| R7213 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | 2014 | 4 400 007 44 | 0504440 01110 | 40005 | =0/ | F0\ / |
| R7214 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W | C214 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| | | | | | | C216 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| R7215 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W | | | | | | |
| R7216 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W | | | < CONNECTOR > | | | |
| R7217 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W | | | | | | |
| R7218 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/16W | CN201 | 1-691-550-11 | PIN, CONNECTOR | R (1.5MM)(| SMD) 3P | |
| R7219 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/16W | | | | | | |
| | | • | | | | | | < DIODE > | | | |
| R7220 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/16W | | | | | | |
| R7221 | 1-216-831-11 | METAL CHIP | 6.8K | 5% | 1/16W | D201 | 8-719-987-21 | DIODE SB02-09 | CP-TB | | |
| R7222 | 1-216-831-11 | METAL CHIP | 6.8K | 5% | 1/16W | | | | | | |
| R7223 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | | | < IC > | | | |
| R7224 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | | | | | | |
| 117 223 | 1 210 001 11 | | | • , , | ., | IC201 | 8-759-521-35 | IC TL5001CDR | | | |
| R7225 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | | | | | | |
| R7227 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | | | < COIL > | | | |
| R7228 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | | (00,2 | | | |
| R7229 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | L201 | 1-412-058-11 | INDUCTOR CHIP | 10uH | | |
| R7230 | 1-216-831-11 | METAL CHIP | 6.8K | 5% | 1/16W | L202 | 1-416-906-11 | INDUCTOR 33ul | | | |
| 117 200 | 1 210 001 11 | ME ME OIM | 0.010 | • 70 | 1, 1011 | L203 | 1-414-405-11 | INDUCTOR 150L | | | |
| R7231 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/16W | | 1 711 100 11 | 1110001011 1000 | ••• | | |
| R7232 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W | 1 | | < TRANSISTOR > | | | |
| R7233 | 1-216-822-11 | METAL CHIP | 1.2K | 5% | 1/16W | | | \ 110.000000000 | | | |
| R7234 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | Q201 | 8-729-033-65 | TRANSISTOR 2 | S.1204-T1R | | |
| R7234 | | METAL CHIP | 0 | 5% | 1/16W | Q202 | | TRANSISTOR 2 | | 516 | |
| n/230 | 1*210-004-11 | MILIAL OTH | | . 070 | 1/1000 | Q203 | | TRANSISTOR 2 | | | |
| | | < SWITCH > | | | | Q204 | | TRANSISTOR 2 | | | |
| | | < SWITOIT > | | | | Q205 | | TRANSISTOR 2 | | | |
| 67000 | 1-762-851-21 | SWITCH, KEY BO | ARD MER | MORV I | | Q200 | 0 720 117 02 | 111/11/0101010101 | 004177 111 | -OLO | |
| S7200 | 1-762-851-21 | | ` | , | | Q206 | 8-720-117-32 | TRANSISTOR 2 | SC/177-T11 | 516 | |
| S7201 | | | • | , | | Q207 | | TRANSISTOR 2 | | | |
| S7202 | | SWITCH, KEY BO | | | | Q207 | | TRANSISTOR 2 | | | |
| S7203 | | SWITCH, KEY BO | | | | U200 | 0-129-111-32 | INANOISIUN Z | 3041/7-111 | LOLO | |
| \$7204 | 1-762-851-21 | SWITCH, KEY BO | ארח (חוף) | PLAY) | | | | . DECICEOD . | | | |
| | . =00 051 01 | OWITOU KEY D | 3400 (DIO | ITAL EEEE |)T\ | | | < RESISTOR > | | | |
| S7205 | 1-762-851-21 | | | | | Door | 4 040 005 44 | MATTAL OLUD | 0.01/ | E0/ | 4/4/01/4 |
| S7206 | | SWITCH, KEY BO | | | EX) | R201 | 1-216-825-11 | | 2.2K | 5% | 1/16W |
| S7207 | | SWITCH, KEY BO | | | | R202 | 1-216-847-11 | | 150K | 5% | 1/16W |
| S7208 | | SWITCH, KEY BO | | | | R203 | 1-216-846-11 | | 120K | 5% | 1/16W |
| S7209 | 1-762-851-21 | SWITCH, KEY BO | Dard (Mei | ИORY DEL | ETE) | R204 | 1-216-849-11 | | 220K | 5% | 1/16W |
| | | | | | | R205 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| S7210 | 1-762-648-21 | | | | | | | | | | |
| S7211 | 1-762-851-21 | SWITCH, KEY BO | | | Y) | R206 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| S7212 | 1-762-851-21 | SWITCH, KEY BO | DARD (DAT | A CODE) | | R208 | 1-218-881-11 | RES,CHIP | 27K | 0.50% | 1/16W |
| S7213 | 1-762-851-21 | SWITCH, KEY BO | DARD (RES | ET) | | R209 | 1-218-877-11 | RES,CHIP | 18K | 0.50% | 1/16W |
| S7214 | 1-771-487-21 | · | | | | R210 | 1-218-847-11 | RES,CHIP | 1K | 0.50% | 1/16W |
| | | | | | | R211 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| S7219 | 1-762-649-21 | SWITCH, ROTAR | Y (SEL/PU | SH EXEC) | | | | | | | |
| Ţ. <u>.</u> | | | | | | 1 | | | | | |

| | | | | | | DD-1 | 120 | Ε | D-48 | F | P-21 | FP | -594 | JK- | 163 |
|--------|----------------------------|--|--|------------------------|---------------------------|-------------------------------|----------------------|---------------------------------|--|----------------------|--|----------------------------|--|--------------------------|--------------------------|
| | 212 | 1-216-864-11 | Description METAL CHIP RES,CHIP | 0 5.6K | 5% 0.50% | Remarks 1/16W 1/16W | Ref. No | <u>).</u> | <u>Part No.</u> | | Description < TRANSIST | OR > | | | <u>Remarks</u> |
| R R | R214 R215 | 1-216-853-11 1-216-833-11 | | 470K 10K 4.7K | 5% 5% 5% | 1/16W 1/16W 1/16W | Q90 Q90 | | 8-729-907 8-729-907 | -25 | PHOTO TRA PHOTO TRA | NSIST | | | |
| | R217 | | METAL CHIP | 2.2K | 5% | 1/16W | | | 0.774.000 | | < SWITCH > | | INI CIAI | | |
| | | 1-216-845-11 1-216-841-11 | METAL CHIP METAL CHIP | 100K 47K | 5% 5% | 1/16W 1/16W | \$90 \$90 \$90 | 2 | 8-771-039 8-572-719 8-771-325 | -32 | SWITCH, PL SWITCH, PL ENCODER, I | JSH (1 | KEY)(REC | PROOF) H)(MODE) | |
| | | A-7073-684-A | ED-48 BOARD, C | ***** | f.No.:10,0 | 000 Series) | | | A-7073-67 | 77-A | JK-163 BOA ****** | | ***** | f.No.:10,0 | 00 Series) |
| | | | < CONNECTOR > | • | | | | | | | < CAPACITO | DR > | , | | |
| . (| CN7000 | 1-573-346-21 | CONNECTOR, FF | C/FPC 6P | | | C71 | 100 | 1-162-964 | | CERAMIC C | | 0.001uF | 10% | 50V |
| | D7000 | 8-719-404-49 | | | | | C71 | 102 | 1-162-964 1-162-964 1-162-964 1-162-964 | 4-11 4-11 | CERAMIC CO CERAMIC CO CERAMIC CO | HIP HIP | 0.001uF 0.001uF 0.001uF 0.001uF | 10% 10% 10% 10% | 50V 50V 50V 50V |
| | D7001 | 8-719-420-14 | DIODE MA8082 < RESISTOR > | 2-1X | | | 07 | 104 | 1-102-90 | 1 -11 | < CONNECT | | 0.00141 | 1070 | |
| | R7000 R7001 R7002 | 1-216-833-11 1-216-822-11 1-216-823-11 | METAL CHIP METAL CHIP METAL CHIP | 10K 1.2K 1.5K | 5% 5% 5% | 1/16W 1/16W 1/16W | CN | 7101 | 1-779-36 1-779-33 1-784-42 | 1-11 | CONNECTO CONNECTO CONNECTO | R, FFC | /FPC 14P | | |
| | R7003 R7004 | 1-216-827-11 1-216-831-11 | METAL CHIP METAL CHIP | 3.3K 6.8K | 5% 5% | 1/16W 1/16W | | | | | < DIODE > | | | | |
| | \$7000 \$7001 \$7002 | 1-762-851-21 1-762-851-21 1-762-851-21 | SWITCH, KEY B SWITCH, KEY B | OARD (BAC OARD (EDI | K LIGHT) ISEARCH | -) | D7 D7 D7 | 100 102 103 104 105 | 8-719-06 8-719-06 8-719-06 8-719-06 8-719-06 | 4-61 4-61 4-61 | DIODE 01 DIODE 01 | BZA8.2 BZA8.2 BZA8.2 | (TE85L) (TE85L) (TE85L) | | |
| | S7003 | 1-/62-851-21 | SWITCH, KEY B | OAND (EDI | ISLANUII | +) | D7 | 106 | 8-719-06 | 4-61 | DIODE . 01 | BZA8.2 | (TE85L) | | |
| | | 1-670-988-21 | FP-21 FLEXIBL | | | | | | | | < FERRITE | | | | |
| | | | (\$700,701,702 i | is included i | ef.No.:10, n this flex | ,000 Series) kible board.) | FB FB | 710 711 712 713 | 1-500-44 | 4-11 4-11 | FERRITE FERRITE FERRITE FERRITE | 0UH 0UH 0UH 0UH | l I . | | |
| | PH700 | 8-749-014-54 | HIC CNA1312K | | • | | | 714 | | | FERRITE | QUF | I . | | |
| | PH701 | 8-749-014-54 | HIC CNA1312K | 01S0 LE BOARD | - and and a second | | FB FB FB | 715 716 717 718 | 1-500-44 | 4-11 4-11 4-11 | FERRITE FERRITE FERRITE | 0UH 0UH 0UH | | | |
| | | | ******* | | Ref.No.:9 | ,000 Series) | | 719 | 1-500-44 | 14-11 | FERRITE < JACK > | 0UF | 1 | | |
| | | | < CONNECTOR | > | | | J7 | 100 | 1-565-27 | '6-31 | JACK, ULT | | | | |
| | CN001 | 1-784-723-11 | | OR 4P | | | - 1 | 101 102 | 1-563-28 1-778-04 | | JACK, SMA JACK, SMA | | | | |
| | DO01 | 8-719-067-13 | < DIODE > DIODE GL453K | | | | | | | | < COIL > | | | | |
| | D901 | 0-7 19-007-10 | < HOLE ELEME | | | | L7 L7 | '100 '101 '102 | 1-414-75 1-414-75 | 7-11 7-11 | INDUCTOF INDUCTOF INDUCTOF | ₹ 100u ₹ 100u | H H | | |
| | H901 H902 | 8-719-061-28 8-719-061-28 | | | | | | '103 '104 | | | INDUCTOF | R 1uH | п | | |
| | | | | | | | _ | 74.0- | 4 040 5 | | < RESISTO | | 0 | £0/ | 1/1614 |
| | | | | | | | R7 | 71.02 | 1-216-86 | 04-11 | METAL CH | IP · | 0 | 5% | 1/16W |

JK-163 LB-55 MA-333

| 017.14 | | | | | | | | | | |
|----------------|------------------------------|---|------------|----------------|----------------|--|------------------------------|----------------------------------|------------|----------------|
| Ref. No. | Part No. | Description | | <u>Remarks</u> | Ref. No. | Part No. | <u>Description</u> | | | <u>Remarks</u> |
| | | < VARISTOR > | | | C7308 | 1-135-259-11 | TANTAL CHIP | 10uF | 20% | 6.3V |
| VDR711 | 1-801-862-11 | VARISTOR, CHIP | | | C7309 C7310 | 1-135-259-11 1-162-968-11 | TANTAL. CHIP CERAMIC CHIP | 10uF 0.0047uF | 20% 10% | 6.3V 50V |
| VDR714 | 1-801-862-11 | VARISTOR, CHIP | | | C7312 | 1-107-826-11 | CERAMIC CHIP | | 10% | 16V |
| | | VARISTOR, CHIP VARISTOR, CHIP | | | C7313 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| | | VARISTOR, CHIP | | | C7314 | 1-162-967-11 | CERAMIC CHIP | | 10% | 50V |
| | | | <u> </u> | A STATE | C7315 C7316 | 1-162-964-11 1-162-964-11 | CERAMIC CHIP CERAMIC CHIP | | 10% 10% | 50V 50V |
| | A-7073-683-A | LB-55 BOARD, COMPLETE | | | C7317 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| | | ************************************** | No.:10.0 | 00 Series) | C7318 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| | | ` | | , | C7319 | 1-107-826-11 | CERAMIC CHIP | | 10% | 16V |
| | | < CAPACITOR > | | | C7320 C7321 | 1-162-927-11 1-162-927-11 | CERAMIC CHIP | | 5% 5% | 50V 50V |
| C5201 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% | 25V | C7322 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C5202 C5203 | 1-113-642-11 1-115-566-11 | TANTAL. CHIP 47uF CERAMIC CHIP 4.7uF | 20% 10% | 10V 10V | C7324 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C5205 | 1-107-682-11 | CERAMIC CHIP 1uF | 10% | 16V | C7325 | 1-107-826-11 | CERAMIC CHIP | | 10% | 16V |
| △ C5206 | 1-163-020-00 | CERAMIC CHIP 0.0082uF | 10% | 50V | C7326 C7328 | 1-107-826-11 1-107-826-11 | CERAMIC CHIP | | 10% 10% | 16V 16V |
| △ C5207 | 1-163-020-00 | CERAMIC CHIP 0.0082uF | 10% | 50V | C7329 | 1-164-245-11 | CERAMIC CHIP | 0.015uF | 10% | 25V |
| △ C5208 | 1-163-020-00 | CERAMIC CHIP 0.0082uF | 10% | 50V | C7330 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| | | < CONNECTOR > | | | C7331 | 1-107-826-11 | CERAMIC CHIP | | 10% | 16V |
| CN5201 | 1-784-421-11 | CONNECTOR, FFC/FPC (ZIF) 2 | 27P | | C7332 C7333 | 1-162-966-11 1-164-245-11 | CERAMIC CHIP CERAMIC CHIP | | 10% 10% | 50V 25V |
| | 1-691-354-21 | CONNECTOR, FFC/FPC (ZIF) 1 | | | C7338 | 1-164-227-11 | CERAMIC CHIP | | 10% | 25V. 25V |
| | | < DIODE > | | | C7339 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 20 V |
| . 55004 | 0.740.050.40 | DIODE 100070/TE051\ | | | C7340 C7341 | 1-164-245-11 1-164-245-11 | CERAMIC CHIP | | 10% 10% | 25V 25V |
| △ D5201 | 8-719-056-49 | DIODE 1SS370(TE85L) | | | C7341 | 1-162-962-11 | CERAMIC CHIP | | 10% | 50V |
| | | < COIL > | | | C7343 C7345 | 1-162-962-11 | CERAMIC CHIP | | 10% | 50V 10V |
| L5201 | 1-412-031-11 | INDUCTOR CHIP 47uH | | | | | | | | |
| L5202 | 1-412-029-11 | INDUCTOR CHIP 10uH | | | C7346 C7347 | 1-115-156-11 1-164-156-11 | CERAMIC CHIP | | | 10V 25V |
| | | < FLUORECENT INDICATOR > | | | C7350 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| △ ND5201 | 1-517-758-11 | TUBE, FLUORESCENT (0.55 II | NCH) | | C7351 C7352 | 1-109-982-11 1-109-982-11 | CERAMIC CHIP CERAMIC CHIP | | 10% 10% | 10V 10V |
| | | < TRANSISTOR > | | | C7353 C7354 | 1-104-852-11 1-135-259-11 | TANTAL. CHIP TANTAL. CHIP | 22uF 10uF | 20% 20% | 6.3V 6.3V |
| △ Q5201 | 8-729-039-24 | TRANSISTOR FX216-TL1 | | | C7355 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| | | < RESISTOR > | | | C7356 C7357 | 1-107-826-11 1-107-826-11 | CERAMIC CHIP | | 10% 10% | 16V 16V |
| | | | | | 0.00. | | | | | |
| R5201 R5202 | 1-216-839-11 1-216-809-11 | METAL CHIP 33K METAL CHIP 100 | 5% 5% | 1/16W 1/16W | | | < CONNECTOR | > | | |
| 110202 | 7 210 000 | < TRANSFORMER > | | | T . | 1-695-320-21 1-580-055-21 | PIN, CONNECTO | | SMD) 2P | |
| | | | | | CN7302 | 1-766-340-21 | CONNECTOR, F | FC/FPC 10P | | |
| △ T5201 | 1-426-848-51 | TRANSFORMER, INVERTER | | 13.0 [] [] | 1 | 1-766-335-21 1-779-337-11 | CONNECTOR, F | | | |
| | A-7073-734-A | MA-333(D) BOARD COMPLET | | | CN7305 | 1-779-327-11 | CONNECTOR, F | FC/FPC 6P | | |
| | | ************************************** | | 00 Series) | | | < DIODE > | | | |
| | | < CAPACITOR > | | | D7300 | 8-719-061-82 | DIODE TLSU1 | | NY) | |
| 07900 | 1-135-259-11 | TANTAL. CHIP 10uF | 20% | 6.3V | D7304 D7305 | 8-719-064-61 8-719-420-14 | DIODE 01BZA8 | | | |
| C7300 C7301 | 1-162-966-11 | CERAMIC CHIP 0.0022uF | 10% | 50V | D7000 | | | | | |
| C7305 C7306 | 1-162-970-11 1-162-927-11 | CERAMIC CHIP 0.01uF CERAMIC CHIP 100PF | 10% 5% | 25V 50V | | | < FERRITE BEA | D > | | |
| C7306 | 1-162-927-11 | CERAMIC CHIP 100PF | 5% | 50V | FB730 | 1-500-444-11 | | JH | | |
| | | | | | FB731 | 1-500-444-11 | FERRITE OL | | | |
| | | | | | 1 - | Note: The components | | Note: Les composa | ants iden | tifiés par |
| | | | | | r | mark ∆ or dotted ∆ are critical for s | line with mark | une marque pour la sécuri | | |
| | | | | | F | Replace only with specified. | part number | Ne les rempli pièce portant l | acer que | |
| | | | | 6- | 18 L | promou. | | piece poi laill | - number | opcome. |

MA-333

PD-101

| Part No. Part No. Description Part No. Circ Part No. | | | | | | | | | | | | |
|---|----------|--------------|--|------------|-------------|----------------|----------|--------------|--|--------------|-----------|----------------|
| C7301 8-759-248-31 IC BR728/CV-22 C847.000 Sartes) | Ref. No. | Part No. | Description | | | <u>Remarks</u> | Ref. No. | Part No. | <u>Description</u> | | | <u>Remarks</u> |
| 1.7300 8-759-834-51 10 MS22FP-E1 | | < IC > | | | | | A-7073-679-A | PD-101 BOARD, | COMPLETE | | |
| C7302 8-759-833-55 C M5222P-E1 | | | | | | | | | ****** | | | |
| C7303 8-759-111-58 C uPC457262-62 | IC7301 | | | | | | | | | (Ref | .No.:10,0 | 000 Series) |
| C7304 8-729-037-53 TRANSISTOR > C5501 1-107-826-11 CERAMIC CHIP 0.1uF 10% 169 | | | | | | | | | - CADACITOD - | | | |
| C5502 1-107-826-11 CERAMIC CHIP 0.1 LF 10% 16V | IC7303 | 8-759-111-56 | IC uPC45/2G2 | -E2 | | | | | < CAPACITOR > | | | |
| C5502 1-107-826-11 CERAMIC CHIP 0.1 LF 10% 16V | | | ~ TRANSISTOR | , | | | C5501 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C5504 1-164-943-11 CERAMIC CHIP 0.01uF 10% 169 | | | V 110/11/01/01/01/01/01/01/01/01/01/01/01/ | | | | l | | | 0.1uF | 10% | 16V . |
| R7302 1-500-444-11 FERRITE OUH R7303 1-216-895-11 METAL CHIP 1K 5% 17/6W C5505 1-107-826-11 CERAMIC CHIP 0.1 uF 10% 16W R7305 1-216-837-11 METAL CHIP 22K 5% 17/6W C5506 1-107-826-11 CERAMIC CHIP 0.1 uF 10% 16W R7305 1-216-837-11 METAL CHIP 26 5% 17/6W C5501 1-104-852-11 TANTAL CHIP 22UF 20% 10W R7306 1-216-835-11 METAL CHIP 15K 5% 17/6W C5510 1-104-852-11 TANTAL CHIP 22UF 20% 10W R7310 1-216-835-11 METAL CHIP 36K 5% 17/6W C5510 1-104-852-11 TANTAL CHIP 0.1 uF 10% 16W R7311 1-216-835-11 METAL CHIP 36K 5% 17/6W C5510 1-104-852-11 TANTAL CHIP 0.1 uF 10% 16W R7312 1-216-835-11 METAL CHIP 36K 5% 17/6W C5510 1-104-852-11 CERAMIC CHIP 0.1 uF 10% 16W R7315 1-216-835-11 METAL CHIP 22K 5% 17/6W C5510 1-104-852-11 CERAMIC CHIP 0.3 uF 10% 16W R7315 1-216-835-11 METAL CHIP 2.2K 5% 17/6W C5510 1-105-901-11 CERAMIC CHIP 0.3 uF 10% 16W R7315 1-216-835-11 METAL CHIP 6.6K 5% 17/6W C5510 1-105-901-11 CERAMIC CHIP 0.3 uF 10% 16W R7315 1-216-835-11 METAL CHIP 6.6K 5% 17/6W C5512 1-164-832-11 CERAMIC CHIP 0.3 uF 10% 16W R7315 1-216-835-11 METAL CHIP 16K 5% 17/6W C5502 1-164-832-11 CERAMIC CHIP 0.3 uF 10% 16W R7315 1-216-835-11 METAL CHIP 16K 5% 17/6W C5502 1-164-832-11 CERAMIC CHIP 0.0 uF 16W 16W C5502 1-164-832-11 CERAMIC CHIP 0.0 uF 16W C5502 1-164-832-11 CERAMIC CHIP 0.0 uF 16W C5502 1-164-832-11 CERAMIC CHIP 0.0 uF 16W C5502 1-164-832 | Q7304 | 8-729-037-53 | TRANSISTOR | 2SB1462J-0 | QR(K8).SO | | 1 | | | | | |
| R7302 1-500-44-11 FERRITE OUH R7303 1-218-905-11 METAL CHIP 47 5% 1/16W C5507 1-104-782-11 TANTAL CHIP 0.1 uF 10% 6.3W 6.3 | | | | | | | | | | | | |
| R7303 | | | < RESISTOR > | | | | C5505 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 167 . |
| R7303 | D7202 | 1-500-444-11 | FERRITE OI | !H | | | C5506 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| F7304 1-216-83-11 METAL CHIP 1K 5% 1/16W C5510 1-104-85-11 TANTAL CHIP 3.34 20% 4V 4V 7308 1-216-835-11 METAL CHIP 6.8K 5% 1/16W C5510 1-104-85-21 TANTAL CHIP 3.34 20% 4V 7308 1-216-835-11 METAL CHIP 6.8K 5% 1/16W C5510 1-104-85-21 TANTAL CHIP 2.0% 10V 7310 1-216-835-11 METAL CHIP 15K 5% 1/16W C5511 1-104-85-21 TANTAL CHIP 2.0% 10V 7311 1-216-839-11 METAL CHIP 15K 5% 1/16W C5512 1-104-85-11 CERAMIC CHIP 0.134 10% 16V 7312 1-216-839-11 METAL CHIP 33K 5% 1/16W C5514 1-110-501-11 CERAMIC CHIP 0.334 10% 16V 7312 1-216-839-11 METAL CHIP 2.2K 5% 1/16W C5515 1-110-501-11 CERAMIC CHIP 0.334 10% 16V 7313 1-216-835-11 METAL CHIP 2.2K 5% 1/16W C5520 1-164-933-11 CERAMIC CHIP 0.334 10% 16V 7315 1-216-831-11 METAL CHIP 8.6K 5% 1/16W C5520 1-164-933-11 CERAMIC CHIP 0.334 10% 16V 7315 1-216-831-11 METAL CHIP 16K 5% 1/16W C5522 1-164-933-11 CERAMIC CHIP 0.334 10% 16V 7315 1-216-831-11 METAL CHIP 1K 5% 1/16W C5522 1-164-933-11 CERAMIC CHIP 2.2D 10% 16V 7315 1-216-831-11 METAL CHIP 1K 5% 1/16W C5522 1-164-933-11 CERAMIC CHIP 2.2D 10% 16V 7315 1-216-831-11 METAL CHIP 1K 5% 1/16W C5522 1-164-933-11 CERAMIC CHIP 2.0D 16V 7315 1-216-831-11 METAL CHIP 1K 5% 1/16W C5502 1-113-951-11 CERAMIC CHIP 0.14F 10% 16V 7325 1-216-835-11 METAL CHIP 15K 5% 1/16W C5503 1-107-725-11 CERAMIC CHIP 0.14F 10% 16V 7325 1-216-835-11 METAL CHIP 15K 5% 1/16W C5503 1-107-826-11 CERAMIC CHIP 0.14F 10% 16V 10W | | | | | 5% | 1/16W | i . | | | | | 6.3V |
| R7306 1-216-83-11 METAL CHIP 22K 5% 1/16W C5500 1-135-221-11 TANTAL CHIP 3.3uF 29% 4V R7301 1-216-835-11 METAL CHIP 15K 5% 1/16W C5511 1-104-851-11 TANTAL CHIP 10WF 20% 10V R7310 1-216-835-11 METAL CHIP 15K 5% 1/16W C5513 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7312 1-216-835-11 METAL CHIP 18K 5% 1/16W C5514 1-110-501-11 CERAMIC CHIP 0.33uF 10% 16V R7312 1-216-835-11 METAL CHIP 2.2K 5% 1/16W C5515 1-110-501-11 CERAMIC CHIP 0.33uF 10% 16V R7315 1-216-835-11 METAL CHIP 2.2K 5% 1/16W C5516 1-110-501-11 CERAMIC CHIP 0.33uF 10% 16V R7316 1-216-835-11 METAL CHIP 2.2K 5% 1/16W C5517 1-107-826-11 CERAMIC CHIP 0.33uF 10% 16V R7316 1-216-835-11 METAL CHIP 6.8K 5% 1/16W C5517 1-107-826-11 CERAMIC CHIP 0.33uF 10% 16V R7316 1-216-831-11 METAL CHIP 6.8K 5% 1/16W C5517 1-107-826-11 CERAMIC CHIP 2.2PF 10% 16V R7316 1-216-831-11 METAL CHIP 6.8K 5% 1/16W C5522 1-164-933-11 CERAMIC CHIP 2.2PF 10% 16V R7316 1-216-835-11 METAL CHIP 1K 5% 1/16W C5502 1-164-933-11 CERAMIC CHIP 2.0PF 10% 16V R7316 1-216-835-11 METAL CHIP 1K 5% 1/16W C5504 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7320 1-216-839-11 METAL CHIP 1K 5% 1/16W C5504 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7322 1-216-833-11 METAL CHIP 1K 5% 1/16W C5504 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7322 1-216-833-11 METAL CHIP 15K 5% 1/16W C5501 1-164-972-11 CERAMIC CHIP 0.1uF 10% 16V R7322 1-216-833-11 METAL CHIP 15K 5% 1/16W C5501 1-164-972-11 CERAMIC CHIP 0.1uF 10% 16V R7322 1-216-833-11 METAL CHIP 15K 5% 1/16W C5501 1-164-972-11 CERAMIC CHIP 0.1uF 10% 16V | | | | | 5% | 1/16W | C5508 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | |
| R7306 1-216-83-11 METAL CHIP 6.8K 5% 1/16W C5512 1-104-85-11 TANTAL CHIP 2.0% 10V | | | METAL CHIP | 22K | 5% | 1/16W | C5509 | 1-135-221-11 | TANTAL, CHIP | 3.3uF | 20% | 4V |
| R7310 1-218-839-11 METAL CHIP 15K 5% 1/16W C5513 1-107-826-11 CERAMIC CHIP 0.33uF 10% 16V R7311 1-218-839-11 METAL CHIP 10K 5% 1/16W C5515 1-110-501-11 CERAMIC CHIP 0.33uF 10% 16V R7313 1-218-825-11 METAL CHIP 2.2K 5% 1/16W C5515 1-110-501-11 CERAMIC CHIP 0.33uF 10% 16V R7313 1-218-825-11 METAL CHIP 2.5K 5% 1/16W C5516 1-110-501-11 CERAMIC CHIP 0.33uF 10% 16V R7316 1-218-831-11 METAL CHIP 6.8K 5% 1/16W C5520 1-164-933-11 CERAMIC CHIP 2.20F 10% 16V R7316 1-218-831-11 METAL CHIP 6.8K 5% 1/16W C5520 1-164-933-11 CERAMIC CHIP 2.20F 10% 16V R7316 1-216-831-11 METAL CHIP 1K 5% 1/16W C5520 1-164-933-11 CERAMIC CHIP 2.20F 10% 16V R7319 1-216-835-11 METAL CHIP 1K 5% 1/16W C5602 1-113-985-11 TANTAL CHIP 10UF 20% 20V 20 | R7306 | 1-216-831-11 | METAL CHIP | 6.8K | 5% | 1/16W | C5510 | 1-104-852-11 | TANTAL. CHIP | 22uF | 20% | 10V |
| R7310 1-216-839-11 METAL CHIP 15K 5% 1/16W C5513 1-107-826-11 CERAMIC CHIP 0.33uF 10% 16V R7311 1-216-839-11 METAL CHIP 10K 5% 1/16W C5515 1-110-501-11 CERAMIC CHIP 0.33uF 10% 16V R7313 1-216-825-11 METAL CHIP 2.2K 5% 1/16W C5515 1-110-501-11 CERAMIC CHIP 0.33uF 10% 16V C5513 1-107-826-11 CERAMIC CHIP 0.10F 10% 16V C5513 1-107-826-11 CERAMIC CHIP 0.10F 10% 16V C5513 1-107-826-11 CERAMIC CHIP 2.0PF 10% 16V C5513 1-107-826-11 CERAMIC CHIP 2.0PF 10% 16V C5513 1-107-826-11 CERAMIC CHIP 0.10F 10% 16V C5513 1-107-826-11 CERAMIC CHIP 0.10F 10% 16V C5513 1-107-826-11 CERAMIC CHIP 0.10F 0.10F 10% 16V C5513 1-107-826-11 CERAMIC CHIP 0.10F 10% 10% 10% C5513 1-107-826-11 CERAMIC CHIP 0.10F 10% 10% C5513 1-107-826-11 CERAMIC CHIP 0.10F | | 1 010 005 11 | NACTAL OLUD | 451/ | F 0/ | 4 (4 C) (4 | 05510 | 1 104 051 11 | TANTAL CUID | 10uE | 20% | 101/ |
| R7311 -216-839-11 METAL CHIP 33K 5% 1/16W C5516 1-110-501-11 CERAMIC CHIP 0.33UF 10% 16V R7312 1-216-825-11 METAL CHIP 2.2K 5% 1/16W C5516 1-110-501-11 CERAMIC CHIP 0.33UF 10% 16V R7315 1-216-825-11 METAL CHIP 2.2K 5% 1/16W C5516 1-110-501-11 CERAMIC CHIP 0.33UF 10% 16V R7315 1-216-831-11 METAL CHIP 2.2K 5% 1/16W C5520 1-164-933-11 CERAMIC CHIP 2.2PF 10% 16V R7317 1-216-831-11 METAL CHIP 1K 5% 1/16W C5521 1-164-933-11 CERAMIC CHIP 2.2PF 10% 16V R7317 1-216-821-11 METAL CHIP 1K 5% 1/16W C5522 1-164-933-11 CERAMIC CHIP 2.2PF 10% 16V R7317 1-216-821-11 METAL CHIP 1K 5% 1/16W C5522 1-164-933-11 CERAMIC CHIP 2.2PF 10% 16V R7318 1-216-833-11 METAL CHIP 1K 5% 1/16W C5602 1-113-985-11 TANTAL CHIP 10% 20V 20 | | | | | | | 1 | | | | | |
| R7312 1-216-836-11 METAL CHIP 18K 5% 1/16W C5516 1-110-501-11 CERAMIC CHIP 0.33uF 10% 16V R7313 1-216-825-11 METAL CHIP 2.2K 5% 1/16W C5516 1-110-501-11 CERAMIC CHIP 0.33uF 10% 16V R7316 1-216-831-11 METAL CHIP 6.8K 5% 1/16W C5520 1-164-933-11 CERAMIC CHIP 22DFF 10% 16V R7316 1-216-831-11 METAL CHIP 1K 5% 1/16W C5521 1-164-933-11 CERAMIC CHIP 22DFF 10% 16V R7317 1-216-831-11 METAL CHIP 1K 5% 1/16W C5521 1-164-933-11 CERAMIC CHIP 22DFF 10% 16V R7318 1-216-831-11 METAL CHIP 1K 5% 1/16W C5602 1-113-985-11 CERAMIC CHIP 22DFF 10% 16V R7320 1-216-835-11 METAL CHIP 1K 5% 1/16W C5602 1-113-985-11 TANTAL CHIP 10F 20% 20V R7321 1-216-835-11 METAL CHIP 10K 5% 1/16W C5603 1-107-225-11 CERAMIC CHIP 0.1uF 10% 16V R7322 1-216-835-11 METAL CHIP 15K 5% 1/16W C5603 1-107-225-11 CERAMIC CHIP 0.1uF 10% 16V R7322 1-216-835-11 METAL CHIP 15K 5% 1/16W C5603 1-162-996-11 CERAMIC CHIP 0.1uF 10% 16V R7322 1-216-835-11 METAL CHIP 15K 5% 1/16W C5603 1-162-996-11 CERAMIC CHIP 0.1uF 10% 16V R7322 1-216-835-11 METAL CHIP 15K 5% 1/16W C5603 1-162-996-11 CERAMIC CHIP 0.1uF 10% 25V R7324 1-216-839-11 METAL CHIP 15K 5% 1/16W C5603 1-162-996-11 CERAMIC CHIP 0.1uF 10% 25V R7324 1-216-839-11 METAL CHIP 3K 5% 1/16W C5613 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V R7324 1-216-839-11 METAL CHIP 3K 5% 1/16W C5613 1-164-072-11 CERAMIC CHIP 0.1uF 10% 25V R7324 1-216-839-11 METAL CHIP 3K 5% 1/16W C5613 1-164-072-11 CERAMIC CHIP 0.1uF 10% 25V R7324 1-216-839-11 METAL CHIP 2K 5% 1/16W C5622 1-107-826-11 CERAMIC CHIP 0.1uF 10% 25V R7324 1-216-839-11 METAL CHIP 2K 5% 1/16W C5622 1-107-826-11 CERAMIC CHIP 0.1uF 10% 25V R7325 1-216-839- | | | | | | | 1 | | | | | |
| R7313 | | | | | | | E . | | | | | |
| R7314 1-216-825-11 METAL CHIP 2.2K 5% 1/16W C5517 1-107-826-11 CERAMIC CHIP 2.2PF 10% 16V R7316 1-216-831-11 METAL CHIP 6.8K 5% 1/16W C5520 1-164-933-11 CERAMIC CHIP 2.2PF 10% 16V R7316 1-216-831-11 METAL CHIP 1K 5% 1/16W C5521 1-164-933-11 CERAMIC CHIP 2.2PF 10% 16V R7317 1-216-821-11 METAL CHIP 1K 5% 1/16W C5522 1-164-933-11 CERAMIC CHIP 2.2PF 10% 16V R7318 1-216-821-11 METAL CHIP 1K 5% 1/16W C5522 1-164-933-11 CERAMIC CHIP 2.2PF 10% 16V C5622 1-13-985-11 TANTAL CHIP 10W 2.2W 2.2W C5622 1-13-985-11 TANTAL CHIP 10W 2.2W 2.2W C5622 1-13-985-11 TANTAL CHIP 10W 16V C5622 1-13-985-11 CERAMIC CHIP 0.1W | | | | | | | 1 | | | | | |
| R7315 | 117010 | | INE IAE OIII | | | ., | | | | | | |
| R7316 1-216-831-11 METAL CHIP 6.8K 5% 1/16W C5522 1-164-933-11 CERAMIC CHIP 220PF 10% 16V R7317 1-216-821-11 METAL CHIP 1K 5% 1/16W C5622 1-164-933-11 CERAMIC CHIP 220PF 10% 16V R7318 1-216-835-11 METAL CHIP 1K 5% 1/16W C5602 1-113-985-11 TANTAL CHIP 10W 16V R7320 1-216-829-11 METAL CHIP 10K 5% 1/16W C5604 1-107-826-11 CERAMIC CHIP 0.1 | R7314 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W | C5517 | 1-107-826-11 | CERAMIC CHIP | | | |
| R7317 1-216-821-11 METAL CHIP 1K 5% 1/16W C5502 1-164-933-11 CERAMIC CHIP 220P 10% 16V C5002 1-13-985-11 TANTAL CHIP 10W 20% 20V C5002 1-13-985-11 TANTAL CHIP 10W 20% 20V C5003 1-216-825-11 TANTAL CHIP 10W 16V C5003 1-107-826-11 CERAMIC CHIP 0.1 uF 10% 16V C5003 1-126-835-11 CERAMIC CHIP 0.1 uF 10% 12V C5003 CERAMIC CHIP 0.1 uF | R7315 | 1-216-831-11 | METAL CHIP ' | 6.8K | | 1/16W | i . | | | | | |
| R7318 1-216-821-11 METAL CHIP 1K 5% 1/16W C5602 1-113-985-11 TANTAL CHIP 10uF 20% 20V | R7316 | 1-216-831-11 | | | | | | | | | | |
| R7319 | R7317 | | | | | | | | | | | |
| R7320 1-216-829-11 METAL CHIP 4,7K 5% 1/16W C5604 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7321 1-216-833-11 METAL CHIP 10K 5% 1/16W C5605 1-164-04-11 CERAMIC CHIP 0.1uF 10% 16V R7324 1-216-835-11 METAL CHIP 15K 5% 1/16W C5608 1-162-964-11 CERAMIC CHIP 0.01uF 10% 25V R7324 1-216-835-11 METAL CHIP 10K 5% 1/16W C5608 1-162-964-11 CERAMIC CHIP 0.001uF 10% 50V R7326 1-216-839-11 METAL CHIP 33K 5% 1/16W C5611 1-164-872-11 CERAMIC CHIP 0.1uF 10% 25V R7321 1-216-839-11 METAL CHIP 33K 5% 1/16W C5612 1-164-872-11 CERAMIC CHIP 82PF 5% 16V R7322 1-216-839-11 METAL CHIP 33K 5% 1/16W C5613 1-164-739-11 CERAMIC CHIP 82PF 5% 16V R7342 1-216-839-11 METAL CHIP 33K 5% 1/16W C5616 1-109-982-11 CERAMIC CHIP 82PF 5% 50V R7342 1-216-839-11 METAL CHIP 33K 5% 1/16W C5618 1-104-916-11 TANTAL CHIP 10% 10V R7345 1-216-839-11 METAL CHIP 33K 5% 1/16W C5619 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V R7345 1-216-839-11 METAL CHIP 33K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.01uF 10% 25V R7345 1-216-839-11 METAL CHIP 33K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.01uF 10% 25V R7345 1-216-839-11 METAL CHIP 33K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.01uF 10% 25V R7351 1-216-839-11 METAL CHIP 20K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 10% 25V R7351 1-216-839-11 METAL CHIP 20K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7353 1-216-833-11 METAL CHIP 0K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 10% 25V R7351 1-216-833-11 METAL CHIP 0K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 0% 25V R7351 1-216-833-11 METAL CHIP 0K 5% 1/16W C5703 1-164-601-11 CERAMIC CHIP 0.1uF 0% 25V CERAMIC CHIP 0.1uF | R7318 | 1-216-821-11 | METAL CHIP | 1K | 5% | . 1/16W | C5602 | 1-113-985-11 | IANTAL, CHIP | 10ur | 20% | 207 |
| R7320 1-216-829-11 METAL CHIP 4,7K 5% 1/16W C5604 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7321 1-216-833-11 METAL CHIP 10K 5% 1/16W C5605 1-164-04-11 CERAMIC CHIP 0.1uF 10% 16V R7324 1-216-835-11 METAL CHIP 15K 5% 1/16W C5608 1-162-964-11 CERAMIC CHIP 0.01uF 10% 25V R7324 1-216-835-11 METAL CHIP 10K 5% 1/16W C5608 1-162-964-11 CERAMIC CHIP 0.001uF 10% 50V R7326 1-216-839-11 METAL CHIP 33K 5% 1/16W C5611 1-164-872-11 CERAMIC CHIP 0.1uF 10% 25V R7321 1-216-839-11 METAL CHIP 33K 5% 1/16W C5612 1-164-872-11 CERAMIC CHIP 82PF 5% 16V R7322 1-216-839-11 METAL CHIP 33K 5% 1/16W C5613 1-164-739-11 CERAMIC CHIP 82PF 5% 16V R7342 1-216-839-11 METAL CHIP 33K 5% 1/16W C5616 1-109-982-11 CERAMIC CHIP 82PF 5% 50V R7342 1-216-839-11 METAL CHIP 33K 5% 1/16W C5618 1-104-916-11 TANTAL CHIP 10% 10V R7345 1-216-839-11 METAL CHIP 33K 5% 1/16W C5619 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V R7345 1-216-839-11 METAL CHIP 33K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.01uF 10% 25V R7345 1-216-839-11 METAL CHIP 33K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.01uF 10% 25V R7345 1-216-839-11 METAL CHIP 33K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.01uF 10% 25V R7351 1-216-839-11 METAL CHIP 20K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 10% 25V R7351 1-216-839-11 METAL CHIP 20K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7353 1-216-833-11 METAL CHIP 0K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 10% 25V R7351 1-216-833-11 METAL CHIP 0K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 0% 25V R7351 1-216-833-11 METAL CHIP 0K 5% 1/16W C5703 1-164-601-11 CERAMIC CHIP 0.1uF 0% 25V CERAMIC CHIP 0.1uF | D7210 | 1 216-835-11 | METAL CHID | 15K | 5% | 1/16W/ | C5603 | 1-107-725-11 | CERAMIC CHIP | 0.1uE | 10% | 16V |
| R7322 1-216-833-11 METAL CHIP 10K 5% 1/16W C5605 1-107-826-11 CERAMIC CHIP 0.1uF 10% 25V R7324 1-216-835-11 METAL CHIP 15K 5% 1/16W C5607 1-164-004-11 CERAMIC CHIP 0.001uF 10% 50V C502 C5605 1-107-826-11 CERAMIC CHIP 0.1uF 10% 25V C5605 1-164-872-11 CERAMIC CHIP 0.001uF 10% 50V C5605 1-164-872-11 CERAMIC CHIP 0.001uF 10% 50V C5605 1-164-872-11 CERAMIC CHIP 0.001uF 10% 50V C5605 1-164-872-11 CERAMIC CHIP 0.001uF 10% 25V C5605 1-164-872-11 CERAMIC CHIP 0.001uF 10% 10V C5605 1-164-872-11 CERAMIC CHIP 0.001uF 10% 25V C5605 1-164-801 1-1 | | | | | | | 1 | | | | | |
| R7322 1-216-835-11 METAL CHIP 15K 5% 1/16W C5607 1-164-004-11 CERAMIC CHIP 0.001uF 10% 25V | | | | | | | 1 | | | | | 16V |
| R7324 1-216-835-11 METAL CHIP 15K 5% 1/16W C5608 1-162-964-11 CERAMIC CHIP 0.001uF 10% 50V | | | | | | | 1 | | CERAMIC CHIP | 0.1uF | | 25V |
| R7327 1-216-833-11 METAL CHIP 10K 5% 1/16W C5611 1-164-004-11 CERAMIC CHIP 0.1 uF 10% 25V R7328 1-216-839-11 METAL CHIP 15K 5% 1/16W C5612 1-164-872-11 CERAMIC CHIP 82PF 5% 16V R7331 1-216-839-11 METAL CHIP 15K 5% 1/16W C5613 1-164-739-11 CERAMIC CHIP 560PF 5% 50V C5613 1-164-879-11 CERAMIC CHIP 10% 10V C5613 1-164-879-11 CERAMIC CHIP 10% 10V C5614 1-109-982-11 CERAMIC CHIP 10% 10V C5614 1-109-982-11 CERAMIC CHIP 10% 10V C5614 1-162-970-11 CERAMIC CHIP 10% 10V C5614 1-162-970-11 CERAMIC CHIP 0.1 uF 10% 16V C5614 1-162-970-11 CERAMIC CHIP 0.1 uF 10% 16V C5624 1-164-943-11 CERAMIC CHIP 0.1 uF 10% 16V C5624 1-164-004-11 CERAMIC CHIP 0.1 uF 10% 16V C5704 1-164-661-11 CERAMIC CHIP 0.1 uF 10% 16V C5704 1-164-661-11 CERAMIC CHIP 0.1 uF 10% 16V C5704 1-164-661-11 CERAMIC CHIP 0.1 uF 10% 10V C5704 1-164-004-11 CERAMIC CHIP 0. | | | | | | 1/16W | C5608 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| R7327 1-216-833-11 METAL CHIP 10K 5% 1/16W C5611 1-164-004-11 CERAMIC CHIP 0.1 uF 10% 25V R7328 1-216-839-11 METAL CHIP 15K 5% 1/16W C5612 1-164-872-11 CERAMIC CHIP 82PF 5% 16V R7331 1-216-839-11 METAL CHIP 15K 5% 1/16W C5613 1-164-739-11 CERAMIC CHIP 560PF 5% 50V C5613 1-164-879-11 CERAMIC CHIP 10% 10V C5613 1-164-879-11 CERAMIC CHIP 10% 10V C5614 1-109-982-11 CERAMIC CHIP 10% 10V C5614 1-109-982-11 CERAMIC CHIP 10% 10V C5614 1-162-970-11 CERAMIC CHIP 10% 10V C5614 1-162-970-11 CERAMIC CHIP 0.1 uF 10% 16V C5614 1-162-970-11 CERAMIC CHIP 0.1 uF 10% 16V C5624 1-164-943-11 CERAMIC CHIP 0.1 uF 10% 16V C5624 1-164-004-11 CERAMIC CHIP 0.1 uF 10% 16V C5704 1-164-661-11 CERAMIC CHIP 0.1 uF 10% 16V C5704 1-164-661-11 CERAMIC CHIP 0.1 uF 10% 16V C5704 1-164-661-11 CERAMIC CHIP 0.1 uF 10% 10V C5704 1-164-004-11 CERAMIC CHIP 0. | | | | | | | 25010 | 1 101 070 11 | 050 11110 01110 | 0005 | F0/ | 401/ |
| R7328 1-216-839-11 METAL CHIP 15K 5% 1/16W C5613 1-164-872-11 CERAMIC CHIP 560PF 5% 50V C5613 1-164-739-11 CERAMIC CHIP 560PF 5% 50V C5616 1-109-982-11 CERAMIC CHIP 1uF 10% 10V C5619 1-162-970-11 CERAMIC CHIP 1uF 10% 15V C5619 1-162-970-11 CERAMIC CHIP 1uF 10% 16V C5620 1-107-826-11 CERAMIC CHIP 1uF 10% 16V C5621 1-113-985-11 TANTAL CHIP 1uF 10% 16V C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V C5701 1-113-991-11 TANTAL CHIP 3uF 20% 16V C5702 1-109-982-11 CERAMIC CHIP 1uF 10% 10V C5702 1-109-982-11 CERAMIC CHIP 1uF 10% 10V C5704 1-164-604-11 CERAMIC CHIP 1uF 10% 10V C5704 1-164-004-11 CERAMIC CHIP 1uF 10% 10V C5704 1-164-004-11 CERAMIC CHIP 1uF 10% 10V C5704 1-164-004-11 CERAMIC CHIP 1uF 10% 50V C5704 1-164-004-11 CERAMIC CHIP 1uF 10% 10V C5704 1-164-004-11 CER | | | | | | | 1 | | | | | |
| R7331 1-216-839-11 METAL CHIP 33K 5% 1/16W C5618 1-109-982-11 CERAMIC CHIP 1uF 10% 10V R7342 1-216-829-11 METAL CHIP 33K 5% 1/16W C5616 1-109-982-11 CERAMIC CHIP 1uF 10% 10V R7344 1-216-839-11 METAL CHIP 33K 5% 1/16W C5619 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V R7345 1-216-839-11 METAL CHIP 12K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7347 1-216-839-11 METAL CHIP 560 5% 1/16W C5621 1-113-985-11 TANTAL. CHIP 1uF 10% 16V R7348 1-216-839-11 METAL CHIP 560 5% 1/16W C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V R7350 1-216-837-11 METAL CHIP 22K 5% 1/16W C5701 1-131-991-11 TANTAL. CHIP 1uF 10% 16V R7351 1-216-839-11 METAL CHIP 10K 5% 1/16W C5702 1-109-982-11 CERAMIC CHIP 1uF 10% 10V R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W C5702 1-109-982-11 CERAMIC CHIP 1uF 10% 10V R7355 1-216-837-11 METAL CHIP 10K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 1uF 10% 10V R7357 1-216-837-11 METAL CHIP 22K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.01uF 10% 25V R7358 1-216-837-11 METAL CHIP 22K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.01uF 10% 25V R7357 1-216-837-11 METAL CHIP 22K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.01uF 10% 25V R7358 1-216-837-11 METAL CHIP 22K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.01uF 10% 25V R7359 1-216-837-11 METAL CHIP 1K 5% 1/16W C5704 1-164-943-11 CERAMIC CHIP 0.01uF 10% 25V R7359 1-216-841-11 METAL CHIP 47K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V R7360 1-216-841-11 METAL CHIP 47K 5% 1/16W CN5803 1-779-065-11 PIN, CONNECTOR, FFC/FPC C4P R7361 1-216-841-11 METAL CHIP 330 5% 1/16W CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 12P R7361 1-216-848-11 METAL CHIP 380 5% 1/16W CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | | | | | | | 1 | | | | | |
| R7332 1-216-839-11 METAL CHIP 33K 5% 1/16W C5616 1-109-882-11 CERAMIC CHIP 1uF 10% 10V R7342 1-216-829-11 METAL CHIP 4.7K 5% 1/16W C5619 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V R7344 1-216-839-11 METAL CHIP 12K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7347 1-216-839-11 METAL CHIP 33K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7348 1-216-839-11 METAL CHIP 560 5% 1/16W C5621 1-113-985-11 TANTAL. CHIP 10uF 20% 20V R7348 1-216-818-11 METAL CHIP 560 5% 1/16W C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V R7350 1-216-837-11 METAL CHIP 22K 5% 1/16W C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V R7351 1-216-849-11 METAL CHIP 22K 5% 1/16W C5701 1-113-991-11 TANTAL. CHIP 33uF 20% 16V R7352 1-216-833-11 METAL CHIP 10K 5% 1/16W C5702 1-109-982-11 CERAMIC CHIP 1uF 10% 10V R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W C5703 1-164-661-11 CERAMIC CHIP 0.018uF 10% 50V R7354 1-216-845-11 METAL CHIP 10K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.018uF 10% 50V R7355 1-216-837-11 METAL CHIP 22K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.018uF 10% 50V R7356 1-216-837-11 METAL CHIP 22K 5% 1/16W C5706 1-164-004-11 CERAMIC CHIP 0.01uF 10% 25V R7357 1-216-837-11 METAL CHIP 22K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 25V R7358 1-216-837-11 METAL CHIP 1K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 25V R7359 1-216-841-11 METAL CHIP 1K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V R7359 1-216-841-11 METAL CHIP 1K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V R7360 1-216-841-11 METAL CHIP 1K 5% 1/16W C5701 1-764-709-11 CONNECTOR, FFC/FPC 24P CN5701 1-764-709-11 CONNECTOR, FFC/FPC CLIF) 10P CN5701 1-764-709-11 CONNECTOR, FFC/FPC CLIF) 10P CN5701 1-764-709-11 PIN, CONNECTOR (PC BOARD) 13P | | | | | | | 1 | | | | | |
| R7342 1-216-829-11 METAL CHIP 4.7K 5% 1/16W C5619 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V R7345 1-216-839-11 METAL CHIP 33K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7347 1-216-839-11 METAL CHIP 560 5% 1/16W C5621 1-113-985-11 TANTAL. CHIP 10µF 20% 20V R7348 1-216-818-11 METAL CHIP 560 5% 1/16W C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V R7350 1-216-839-11 METAL CHIP 22K 5% 1/16W C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V R7351 1-216-849-11 METAL CHIP 22K 5% 1/16W C5701 1-113-991-11 TANTAL. CHIP 33µF 20% 16V R7351 1-216-833-11 METAL CHIP 10K 5% 1/16W C5701 1-13-991-11 TANTAL. CHIP 33µF 20% 16V R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W C5702 1-109-982-11 CERAMIC CHIP 0.1uF 10% 10V R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W C5703 1-164-661-11 CERAMIC CHIP 0.018µF 10% 50V R7351 1-216-845-11 METAL CHIP 100K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 50V R7351 1-216-845-11 METAL CHIP 10K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 50V R7351 1-216-845-11 METAL CHIP 10K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V R7356 1-216-837-11 METAL CHIP 22K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.1uF 10% 25V R7356 1-216-841-11 METAL CHIP 1K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V R7359 1-216-841-11 METAL CHIP 1K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V R7359 1-216-841-11 METAL CHIP 1K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V R7356 1-216-841-11 METAL CHIP 1K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V R7361 1-216-841-11 METAL CHIP 330 5% 1/16W CN5601 1-573-364-11 CONNECTOR, FFC/FPC 24P CN5701 1-764-709-11 CONNECTOR, FFC/FPC CUF 10P R7361 1-216-848-11 METAL CHIP 330 5% 1/16W CN5602 1-779-064-11 PIN, CONNECTOR (PC BOARD) 13P R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | | | | | | | 5 | | | | | |
| R7344 1-216-839-11 METAL CHIP 33K 5% 1/16W C5619 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V R7345 1-216-839-11 METAL CHIP 12K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7347 1-216-839-11 METAL CHIP 560 5% 1/16W C5621 1-113-985-11 TANTAL. CHIP 10uF 20% 20V R7348 1-216-818-11 METAL CHIP 560 5% 1/16W C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V R7350 1-216-839-11 METAL CHIP 22K 5% 1/16W C5622 1-107-682-11 CERAMIC CHIP 0.1uF 10% 25V R7351 1-216-849-11 METAL CHIP 220K 5% 1/16W C5701 1-113-991-11 TANTAL. CHIP 33uF 20% 16V R7352 1-216-833-11 METAL CHIP 10K 5% 1/16W C5701 1-113-991-11 TANTAL. CHIP 33uF 20% 16V R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W C5702 1-109-982-11 CERAMIC CHIP 1uF 10% 10V R7354 1-216-845-11 METAL CHIP 10K 5% 1/16W C5703 1-164-661-11 CERAMIC CHIP 0.018uF 10% 50V R7356 1-216-837-11 METAL CHIP 22K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V R7356 1-216-837-11 METAL CHIP 22K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V R7357 1-216-821-11 METAL CHIP 22K 5% 1/16W C5705 1-113-521-11 CERAMIC CHIP 0.1uF 10% 25V R7357 1-216-821-11 METAL CHIP 1K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V R7357 1-216-841-11 METAL CHIP 1K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V R7357 1-216-841-11 METAL CHIP 1K 5% 1/16W C5706 1-1573-364-11 CERAMIC CHIP 0.01uF 10% 16V R7356 1-216-841-11 METAL CHIP 1K 5% 1/16W CN5701 1-764-709-11 CONNECTOR, FFC/FPC 24P CN5701 1-764-709-11 CONNECTOR, FFC/FPC (LIF) 10P CN5701 1-764-709-11 CONNECTOR, FFC/FPC (LIF) 10P CN5701 1-764-709-11 METAL CHIP 330 5% 1/16W CN5802 1-779-064-11 PIN, CONNECTOR (PC BOARD) 12P R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | M/332 | 1-210-039-11 | WEIAL OITH | 3310 | 370 | 1/1044 | 00010 | 1 100 002 11 | OLI U MITO OTTI | · u | 10,0 | |
| R7345 1-216-834-11 METAL CHIP 12K 5% 1/16W C5620 1-107-826-11 CERAMIC CHIP 0.1uF 10% 16V R7347 1-216-839-11 METAL CHIP 560 5% 1/16W C5621 1-113-985-11 TANTAL. CHIP 10wF 20% 20V R7348 1-216-848-11 METAL CHIP 22K 5% 1/16W C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V R7352 1-216-849-11 METAL CHIP 22K 5% 1/16W C5701 1-113-991-11 TANTAL. CHIP 33uF 20% 16V R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W C5702 1-109-982-11 CERAMIC CHIP 1uF 10% 10V R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W C5703 1-164-661-11 CERAMIC CHIP 0.1uF 10% 50V C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 10% 10% C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% C5704 1-164-004-11 CERAMIC | R7342 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W | C5618 | 1-104-916-11 | TANTAL. CHIP | 6.8uF | 20% | 20V |
| R7347 1-216-839-11 METAL CHIP 560 5% 1/16W C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V R7348 1-216-818-11 METAL CHIP 560 5% 1/16W C5622 1-107-682-11 CERAMIC CHIP 1uF 10% 16V R7350 1-216-837-11 METAL CHIP 22K 5% 1/16W C5701 1-113-991-11 TANTAL. CHIP 33uF 20% 16V R7351 1-216-833-11 METAL CHIP 10K 5% 1/16W C5702 1-109-982-11 CERAMIC CHIP 1uF 10% 10V R7352 1-216-833-11 METAL CHIP 10K 5% 1/16W C5703 1-164-661-11 CERAMIC CHIP 1uF 10% 50V R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 50V R7355 1-216-837-11 METAL CHIP 10K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V R7355 1-216-837-11 METAL CHIP 22K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V R7356 1-216-837-11 METAL CHIP 22K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V R7357 1-216-821-11 METAL CHIP 22K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V R7358 1-216-841-11 METAL CHIP 1K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V R7360 1-216-841-11 METAL CHIP 47K 5% 1/16W CN5701 1-764-709-11 CONNECTOR, FFC/FPC 24P R7360 1-216-845-11 METAL CHIP 330 5% 1/16W CN5701 1-764-709-11 CONNECTOR, FFC/FPC 24P R7361 1-216-848-11 METAL CHIP 330 5% 1/16W CN5802 1-779-064-11 PIN, CONNECTOR (PC BOARD) 12P R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | R7344 | 1-216-839-11 | METAL CHIP | 33K | 5% | | C5619 | | | | | |
| R7348 1-216-818-11 METAL CHIP 560 5% 1/16W R7350 1-216-837-11 METAL CHIP 22K 5% 1/16W R7351 1-216-849-11 METAL CHIP 22OK 5% 1/16W R7352 1-216-833-11 METAL CHIP 10K 5% 1/16W R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W R7354 1-216-845-11 METAL CHIP 10K 5% 1/16W R7355 1-216-845-11 METAL CHIP 10K 5% 1/16W R7356 1-216-845-11 METAL CHIP 10K 5% 1/16W R7357 1-216-837-11 METAL CHIP 22K 5% 1/16W R7358 1-216-837-11 METAL CHIP 22K 5% 1/16W R7359 1-216-841-11 METAL CHIP 1K 5% 1/16W R7350 1-216-841-11 METAL CHIP 1K 5% 1/16W R7351 1-216-841-11 METAL CHIP 1K 5% 1/16W R7353 1-216-841-11 METAL CHIP 47K 5% 1/16W R7350 1-216-841-11 METAL CHIP 47K 5% 1/16W R7361 1-216-841-11 METAL CHIP 47K 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7360 1-216-848-11 METAL CHIP 330 5% 1/16W R7360 1-216-848-11 METAL CHIP 330 5% 1/16W R7360 1-216-848-11 METAL CHIP 330 5% 1/16W R7360 1-216-848-11 METAL CHIP 330 5% 1/16W R7360 1-216-848-11 METAL CHIP 330 5% 1/16W R7360 1-216-848-11 METAL CHIP 330 5% 1/16W R7360 1-216-848-11 METAL CHIP 330 5% 1/16W R7360 1-216-848-11 METAL | R7345 | 1-216-834-11 | | | | | | | | | | |
| R7350 1-216-837-11 METAL CHIP 22K 5% 1/16W C5701 1-113-991-11 TANTAL. CHIP 33uF 20% 16V C5702 1-216-833-11 METAL CHIP 10K 5% 1/16W C5702 1-109-982-11 CERAMIC CHIP 10F 10W C5703 1-164-661-11 CERAMIC CHIP 10F 10W C5704 1-164-004-11 CERAMIC CHIP 10F 10W C5704 1-164-661-11 CERAMIC CHIP 10F 10W C5704 1-164-661-11 CERAMIC CHIP 10F 10W C5704 1-164-004-11 CERAMIC CHIP 10W C5704 1-164-004-11 CERAMIC CHIP 10W C5704 1-164-004-11 CERAMIC CHIP 10W C5704 1-164-004-11 CERAMIC CHIP 10W C5704 1-164-004-11 CERAMIC CHIP 10W C5704 1-164-004-11 CERAMIC CHIP 10W C5704 1-164-004-11 CERAMIC CHIP 10W C5704 1-164-004-11 CERAMIC CHIP 10W C5705 1-113-521-11 CERAMIC CHIP 10W C5706 1-164-943-11 CER | | | | | | | | | | | | |
| R7351 1-216-849-11 METAL CHIP 220K 5% 1/16W C5701 1-113-991-11 TANTAL. CHIP 33uF 20% 16V R7352 1-216-833-11 METAL CHIP 10K 5% 1/16W C5702 1-109-982-11 CERAMIC CHIP 1uF 10% 10V R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W C5703 1-164-661-11 CERAMIC CHIP 0.018uF 10% 50V R7354 1-216-845-11 METAL CHIP 100K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V R7355 1-216-837-11 METAL CHIP 22K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V R7357 1-216-837-11 METAL CHIP 22K 5% 1/16W R7357 1-216-821-11 METAL CHIP 1K 5% 1/16W R7358 1-216-821-11 METAL CHIP 1K 5% 1/16W R7359 1-216-841-11 METAL CHIP 1K 5% 1/16W R7359 1-216-841-11 METAL CHIP 47K 5% 1/16W R7359 1-216-841-11 METAL CHIP 47K 5% 1/16W R7361 1-216-845-11 METAL CHIP 47K 5% 1/16W CN5701 1-764-709-11 CONNECTOR, FFC/FPC 24P CN5701 1-764-709-11 CONNECTOR, FFC/FPC (LIF) 10P R7361 1-216-848-11 METAL CHIP 330 5% 1/16W CN5802 1-779-064-11 PIN, CONNECTOR (PC BOARD) 12P R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | R7348 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/16W | C5622 | 1-107-682-11 | CERAMIC CHIP | 1 u F | 10% | 167 |
| R7351 1-216-849-11 METAL CHIP 220K 5% 1/16W C5701 1-113-991-11 TANTAL. CHIP 33uF 20% 16V R7352 1-216-833-11 METAL CHIP 10K 5% 1/16W C5702 1-109-982-11 CERAMIC CHIP 1uF 10% 10V R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W C5703 1-164-661-11 CERAMIC CHIP 0.018uF 10% 50V R7354 1-216-845-11 METAL CHIP 100K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V R7355 1-216-837-11 METAL CHIP 22K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V R7357 1-216-837-11 METAL CHIP 22K 5% 1/16W R7357 1-216-821-11 METAL CHIP 1K 5% 1/16W R7358 1-216-821-11 METAL CHIP 1K 5% 1/16W R7359 1-216-841-11 METAL CHIP 1K 5% 1/16W R7359 1-216-841-11 METAL CHIP 47K 5% 1/16W R7359 1-216-841-11 METAL CHIP 47K 5% 1/16W R7361 1-216-845-11 METAL CHIP 47K 5% 1/16W CN5701 1-764-709-11 CONNECTOR, FFC/FPC 24P CN5701 1-764-709-11 CONNECTOR, FFC/FPC (LIF) 10P R7361 1-216-848-11 METAL CHIP 330 5% 1/16W CN5802 1-779-064-11 PIN, CONNECTOR (PC BOARD) 12P R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | D73E0 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | C5624 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| R7352 1-216-833-11 METAL CHIP 10K 5% 1/16W R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W R7354 1-216-845-11 METAL CHIP 100K 5% 1/16W C5703 1-164-661-11 CERAMIC CHIP 0.018uF 10% 50V C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 3KV C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V C5704 1-164-004-11 CERAMIC CHIP 12PF 10% 3KV C5705 1-113-521-11 CERAMIC CHIP 0.01uF 10% 16V C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 10% 16V C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 10% 16V C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 10% 16V C5706 1-164-943-11 CERAMIC CHIP 0.01 | | | | | | | 1 | | | | | |
| R7353 1-216-833-11 METAL CHIP 10K 5% 1/16W C5703 1-164-661-11 CERAMIC CHIP 0.018uF 10% 25V C5704 1-216-845-11 METAL CHIP 100K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V C5704 1-216-837-11 METAL CHIP 22K 5% 1/16W C5704 1-164-004-11 CERAMIC CHIP 12PF 10% 3KV C5705 1-216-837-11 METAL CHIP 22K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 12PF 10% 3KV C5705 1-216-821-11 METAL CHIP 1K 5% 1/16W C5706 1-164-943-11 CERAMIC CHIP 0.01uF 10% 16V C | | | | | | | 1 | | | | | 10V |
| R7354 1-216-845-11 METAL CHIP 100K 5% 1/16W R7355 1-216-837-11 METAL CHIP 22K 5% 1/16W R7356 1-216-837-11 METAL CHIP 22K 5% 1/16W R7357 1-216-821-11 METAL CHIP 1K 5% 1/16W R7358 1-216-821-11 METAL CHIP 1K 5% 1/16W R7359 1-216-841-11 METAL CHIP 1K 5% 1/16W R7359 1-216-841-11 METAL CHIP 47K 5% 1/16W R7360 1-216-841-11 METAL CHIP 47K 5% 1/16W R7361 1-216-845-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7364 1-216-848-11 METAL CHIP 180K 5% 1/16W R7365 1-216-848-11 METAL CHIP 180K 5% 1/16W R7366 1-216-848-11 METAL CHIP 180K 5% 1/16W R7367 1-216-848-11 METAL CHIP 180K 5% 1/16W R7368 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7360 1-216-848-11 METAL CHIP 180K 5% 1/16W R7361 1-216-848-11 METAL CHIP 180K 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7361 1-216-848-11 METAL CHIP 180K 5% 1/16W R7361 1-216-848-11 METAL CHIP 180K 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7364 1-216-848-11 METAL CHIP 180K 5% 1/16W R7365 1-216-848-11 METAL CHIP 180K 5% 1/16W R7367 1-216-848-11 METAL CHIP 180K 5% 1/16W R7368 1-216-848-11 METAL CHIP 180K 5% 1/16W | | | | | | | C5703 | 1-164-661-11 | CERAMIC CHIP | 0.018uF | 10% | 50V |
| R7356 1-216-837-11 METAL CHIP 22K 5% 1/16W R7357 1-216-821-11 METAL CHIP 1K 5% 1/16W R7358 1-216-821-11 METAL CHIP 1K 5% 1/16W R7359 1-216-841-11 METAL CHIP 47K 5% 1/16W R7360 1-216-841-11 METAL CHIP 47K 5% 1/16W R7361 1-216-815-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7364 1-216-848-11 METAL CHIP 180K 5% 1/16W R7365 1-216-848-11 METAL CHIP 180K 5% 1/16W R7366 1-216-848-11 METAL CHIP 180K 5% 1/16W R7367 1-216-848-11 METAL CHIP 180K 5% 1/16W R7368 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W | | | | 100K | 5% | 1/16W | C5704 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| R7356 1-216-837-11 METAL CHIP 22K 5% 1/16W R7357 1-216-821-11 METAL CHIP 1K 5% 1/16W R7358 1-216-821-11 METAL CHIP 1K 5% 1/16W R7359 1-216-841-11 METAL CHIP 47K 5% 1/16W R7360 1-216-841-11 METAL CHIP 47K 5% 1/16W R7361 1-216-815-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W R7364 1-216-848-11 METAL CHIP 180K 5% 1/16W R7365 1-216-848-11 METAL CHIP 180K 5% 1/16W R7366 1-216-848-11 METAL CHIP 180K 5% 1/16W R7367 1-216-848-11 METAL CHIP 180K 5% 1/16W R7368 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W R7369 1-216-848-11 METAL CHIP 180K 5% 1/16W | | | ****** | 0011 | F 0/ | 4 (4 (0) 4) | A 05705 | 4 440 204 44 | OFFIANCE OF THE | 1005 | 100/ | 21/1 |
| R7357 1-216-821-11 METAL CHIP 1K 5% 1/16W R7358 1-216-821-11 METAL CHIP 1K 5% 1/16W R7359 1-216-841-11 METAL CHIP 47K 5% 1/16W R7360 1-216-841-11 METAL CHIP 47K 5% 1/16W R7361 1-216-815-11 METAL CHIP 330 5% 1/16W CN5701 1-764-709-11 CONNECTOR, FFC/FPC 24P CN5701 1-764-709-11 CONNECTOR, FFC/FPC (LIF) 10P CN5802 1-779-064-11 PIN, CONNECTOR (PC BOARD) 12P CN5803 1-216-848-11 METAL CHIP 180K 5% 1/16W CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | | | | | | | 1 | | | | | |
| R7358 1-216-821-11 METAL CHIP 1K 5% 1/16W R7359 1-216-841-11 METAL CHIP 47K 5% 1/16W R7360 1-216-841-11 METAL CHIP 47K 5% 1/16W R7361 1-216-845-11 METAL CHIP 47K 5% 1/16W R7363 1-216-848-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W CN5802 1-779-064-11 PIN, CONNECTOR, FFC/FPC (LIF) 10P CN5802 1-779-064-11 PIN, CONNECTOR (PC BOARD) 12P CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | | | | | | | 05/06 | 1-104-940-11 | JENAWIO UNIP | U.UTUF | 10 /0 | 10A |
| R7359 1-216-841-11 METAL CHIP 47K 5% 1/16W R7360 1-216-841-11 METAL CHIP 47K 5% 1/16W R7361 1-216-845-11 METAL CHIP 47K 5% 1/16W R7361 1-216-815-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W CN5601 1-573-364-11 CONNECTOR, FFC/FPC 24P CN5701 1-764-709-11 CONNECTOR, FFC/FPC (LIF) 10P CN5802 1-779-064-11 PIN, CONNECTOR (PC BOARD) 12P CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | | | | | | | | • | < CONNECTOR > | • | | |
| CN5601 1-573-364-11 CONNECTOR, FFC/FPC 24P R7360 1-216-841-11 METAL CHIP 47K 5% 1/16W R7361 1-216-815-11 METAL CHIP 330 5% 1/16W R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W CN5802 1-779-064-11 PIN, CONNECTOR (PC BOARD) 12P CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | | | | | | | | | / COMMENTOLOUS | | | |
| R7360 1-216-841-11 METAL CHIP 47K 5% 1/16W CN5701 1-764-709-11 CONNECTOR, FFC/FPC (LIF) 10P R7361 1-216-815-11 METAL CHIP 330 5% 1/16W CN5802 1-779-064-11 PIN, CONNECTOR (PC BOARD) 12P R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | กางอช | 1210-041-11 | WE I'VE OTH | 1110 | 270 | ., | CN5601 | 1-573-364-11 | CONNECTOR, FF | C/FPG 24P | | |
| R7361 1-216-815-11 METAL CHIP 330 5% 1/16W CN5802 1-779-064-11 PIN, CONNECTOR (PC BOARD) 12P R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | R7360 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | | , | | 10P | |
| R7363 1-216-848-11 METAL CHIP 180K 5% 1/16W CN5803 1-779-065-11 PIN, CONNECTOR (PC BOARD) 13P | | | | | | | CN5802 | 1-779-064-11 | The second secon | | , | |
| CN5805 1-573-346-21 CONNECTOR, FFC/FPC 6P | | | | 180K | 5% | 1/16W | | | • | • | (D) 13P | |
| | | | | | | | CN5805 | 1-573-346-21 | CONNECTOR, FF | C/FPC 6P | | |

Note:
The components identified by mark ♠ or dotted line with mark ♠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ∆ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

PD-101

| Ref. No. | Part No. | <u>Description</u> | | | <u>Remarks</u> | Ref. No. | Part No. | Description | | | | Remarks |
|------------------|------------------------------|-------------------------------|-------------|----------------|----------------|----------------|------------------------------|----------------------|-----|------------------------------|-------------|----------------|
| | | < DIODE > | | | | R5607 | 1-218-990-11 | SHORT | 0 | | | |
| | · | | | | | R5608 | | SHORT | 0 | 1001/ | F 0/ | 4 /4 (0) (4) |
| D5602 | 8-713-102-80 | DIODE 1T369-0 DIODE MA8047 | | | | R5610 R5614 | 1-218-977-11 1-218-987-11 | RES,CHIP | | 100K 680K | 5% 5% | 1/16W 1/16W |
| D5604 ▲ D5704 | | DIODE MA111- | | | | R5615 | | | | 180K | 5% | 1/16W |
| D5801 | | DIODE 01ZA8.2 | | | | 110010 | . 210 000 11 | | | | • , , | ,,,,,, |
| D5802 | | DIODE 01ZA8.2 | | | | R5620 | | | | 10K | 5% | 1/16W |
| | | | | | | R5621 | 1-218-989-11 | | | 1 M | 5% | 1/16W |
| | | < 1C > | | | | R5622 R5623 | | | | 1M 68K | 5% 5% | 1/16W 1/16W |
| IC5501 | 8-759-364-05 | IC M62376GP- | 65AD | | | R5624 | | | | 22K | 5% | 1/16W |
| 105501 105501 | | IC MB40D001F | | ER . | | 11002. | ; = ; = ; = ; | | | | - /- | |
| IC5502 | 8-759-539 - 27 | IC IR3Y37A4 | | | | R5627 | | | | 47K | 0.50% | 1/16W |
| IC5601 | | IC LZ9GH204 | | | | R5628 | | | 0 | 001/ | E0/ | 4 /4 (2) (4) |
| IC5602 | 8-759-327-01 | IC NJM062V(T | E2) | | | R5629 R5630 | | | | 68K 47K | 5% 5% | 1/16W 1/16W |
| IC5701 | 8-759-075-70 | IC TA75S393F- | TE85R | | | R5634 | | | | 4.7K | 5% | 1/16W |
| 100701 | 0 700 070 10 | | | | | | | , | | | | |
| | | < COIL > | | | | R5640 | | | | 100K | 0.50% | 1/16W |
| 1 == 00 | - 44 A 75 A 44 | INDUCTOR 10. | .11 | | | R5641 R5643 | | | | 33K 56K | 0.50% 5% | 1/16W 1/16W |
| L5500 L5501 | 1-414-754-11 | INDUCTOR 10u INDUCTOR 47u | | | | R5644 | | | | 33K | 5% | 1/16W |
| L5501 | 1-414-754-11 | | | | | R5649 | | | 0 | | 0 / 0 | 1,1011 |
| L5503 | 1-414-754-11 | | | | | | | | | | | |
| L5603 | 1-414-754-11 | INDUCTOR 10u | ıH | | | R5651 | 1-208-719-11 | | | 33K | | 1/16W |
| | | INDUCTOR 40 | | | | R5652 | | | | 22K | | 1/16W |
| L5604 | 1-414-754-11 1-412-945-11 | | | | | R5653 R5654 | | | | 39K 33K | | 1/16W 1/16W |
| L5605 L5701 | 1-412-945-11 | | | | | R5657 | | • | 0 | 0011 | 0.0070 | 171011 |
| L0701 . | , 410 000 11 | Meddidit 188 | , (1) | | | " | | | | | | |
| | | < TRANSISTOR | > | | | R5658 | | | 0 | | | |
| | | | | D.((40) 00 | | R5659 | | | 0 | | | |
| Q5605 | | TRANSISTOR : | | | | R5660 R5661 | 1-218-990-11 1-218-990-11 | | 0 | | | |
| Q5606 Q5607 | | TRANSISTOR : | | | | R5669 | | | 0 | | | |
| Q5608 | | TRANSISTOR | | | | | | | | | | |
| ▲ Q5701 | 8-729-039-43 | | | | | R5670 | | | 0 | | | |
| | | TD 4 NO 10 TO D | | 0) 00 | | R5671 | 1-218-990-11 | | 0 | | | |
| Q5702 | 8-729-042-59 | TRANSISTOR | UN9112J-(K | 8).50 | | R5674 R5676 | | SHORT | 0 | | | |
| | | < RESISTOR > | | | | R5679 | | | Ü | 47 | 5% | 1/16W |
| | | | | | | | | | | | | |
| R5500 | 1-218-990-11 | | | 5 0/ | 4.40041 | R5680 | | | | 47 | 5% | 1/16W |
| R5501 R5505 | 1-218-972-11 1-218-973-11 | RES,CHIP RES,CHIP | 39K 47K | 5% 5% | 1/16W 1/16W | R5681 R5685 | 1-218-937-11 1-218-973-11 | RES,CHIP RES,CHIP | | 47 47K | 5% 5% | 1/16W 1/16W |
| R5508 | 1-208-719-11 | RES,CHIP | 33K | 0.50% | 1/16W | R5686 | 1-218-973-11 | RES,CHIP | | 47K | 5% | 1/16W |
| R5509 | 1-208-711-11 | | 15K | 0.50% | 1/16W | R5687 | 1-218-961-11 | RES,CHIP | | 4.7K | 5% | 1/16W |
| | | | | | | | | | | | | |
| R5510 | 1-218-969-11 | RES,CHIP | 22K | 5% | 1/16W | R5688 | 1-216-864-11 | METAL CHIP SHORT | 0 | 0 | 5% | 1/16W |
| R5511 R5512 | 1-218-966-11 1-218-969-11 | RES,CHIP RES,CHIP | 12K 22K | 5% 5% | 1/16W 1/16W | R5695 R5699 | 1-218-990-11 1-218-969-11 | RES,CHIP | Ū | 22K | 5% | 1/16W |
| R5513 | 1-218-966-11 | RES,CHIP | 12K | 5% | 1/16W | R5703 | 1-216-055-00 | METAL CHIP | | 1.8K | 5% | 1/10W |
| R5514 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W | R5704 | 1-216-055-00 | METAL CHIP | | 1.8K | 5% | 1/10W |
| | | | 0014 | F 0/ | 4 (4 (3)). | D5705 | 4 040 077 44 | DEC OLUB | | 1001/ | E 0/ | 4 /4 (3)// |
| R5515 | 1-218-972-11 | RES,CHIP RES,CHIP | 39K 22K | 5% 5% | 1/16W 1/16W | R5705 R5706 | 1-218-977-11 1-218-963-11 | RES,CHIP RES,CHIP | | 100K 6.8K | 5% 5% | 1/16W 1/16W |
| R5516 R5517 | 1-218-969-11 1-218-967-11 | • | 15K | 5% 5% | 1/16W | R5700 | 1-218-969-11 | RES,CHIP | | 22K | 5% | 1/16W |
| R5518 | 1-218-971-11 | RES,CHIP | 33K | 5% | 1/16W | R5708 | 1-218-942-11 | RES,CHIP | | 120 | 5% | 1/16W |
| R5520 | 1-218-984-11 | RES,CHIP | 390K | 5% | 1/16W | R5709 | 1-218-949-11 | RES,CHIP | | 470 | 5% | 1/16W |
| | | | | . = = = : | 4.4.0344 | DE740 | 1 010 000 11 | QUODT | _ | | | |
| R5521 | 1-208-709-11 | RES,CHIP | 12K | 0.50% 0.50% | 1/16W 1/16W | R5710 R5801 | 1-218-990-11 1-218-954-11 | SHORT RES,CHIP | 0 | 1.2K | 5% | 1/16W |
| R5522 R5528 | 1-208-721-11 1-218-977-11 | RES,CHIP RES,CHIP | 39K 100K | 0.50% 5% | 1/16W | R5802 | 1-218-955-11 | RES,CHIP | | 1.2K 1.5K | 5% | 1/16W |
| R5532 | 1-218-990-11 | SHORT 0 | . 5011 | | | R5803 | 1-218-959-11 | RES,CHIP | | 3.3K | 5% | 1/16W |
| R5540 | 1-218-941-11 | RES,CHIP | 100 | 5% | 1/16W | R5804 | 1-218-963-11 | RES,CHIP | | 6.8K | 5% | 1/16W |
| B | 4 040 044 44 | DEC OUID | 100 | E0/ | 4/46/4/ | | | | | | | |
| R5541 R5542 | 1-218-941-11 1-218-941-11 | RES,CHIP RES,CHIP | 100 100 | 5% 5% | 1/16W 1/16W | | | | | | | |
| R5601 | 1-218-990-11 | SHORT 0 | 100 | J /0 | 171000 | _ | | | T - | | | |
| R5603 | 1-218-990-11 | SHORT 0 | | | | | Note: The components | identified by | 1 | l ote : es composa | ants ident | ifiés nar |
| R5604 | 1-218-990-11 | SHORT 0 | | | | | mark △ or dotted | line with mark | u | ne marque | ⚠ sont | |
| | | | | | | | Δ are critical for | safety. | p | our la sécur | ité. | |

pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

| | | | | | RI-10 S | E-75 | VC | -208 |
|----------------------------|-----------------------------|--|--------------|------------------------------|------------------------------|-----------------|----------------|----------------|
| Ref. No. | Part No. | Description Remarks | Ref. No. | Part No. | Description | | | <u>Remarks</u> |
| R5805 | 1-218-965-11 | RES,CHIP 10K 5% 1/16W | C212 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| R5807 | 1-218-990-11 | SHORT 0 | C213 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | . 10V |
| | | < TRANSFORMER > | C214 C215 | 1-125-777-11 1-125-777-11 | CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.1uF | 10% 10% | 10V 10V |
| | | C ITANOI OTWIET? | C217 | 1-125-777-11 | | 0.1uF | 10% | 10V |
| △ T5701 | 1-431-754-21 | TRANSFORMER, INVERTER | C218 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| | | | C218 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| | A-7073-735-A | RI-10(D) BOARD, COMPLETE | C220 | 1-125-777-11 | | 0.1uF | 10% | 10V |
| | | ************************************** | C221 C222 | 1-125-777-11 1-113-988-11 | CERAMIC CHIP TANTAL. CHIP | 0.1uF 68uF | 10% 20% | 10V 4V |
| | | (Ref.No.:10,000 Series) | 0222 | 1-110-900-11 | IANTAL. OTTE | ooui | 20 /0 | -7 V |
| * | 3-052-742-01 | HOLDER, LED | C227 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| | 3-977-676-01 | HOLDER, LED | C228 C229 | 1-164-850-11 1-164-937-11 | CERAMIC CHIP CERAMIC CHIP | 10PF 0.001uF | 0.5PF 10% | 16V 16V |
| | | < CONNECTOR > | C230 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 16V |
| | | (00,000,000,000,000,000,000,000,000,000 | C231 | 1-164-846-11 | CERAMIC CHIP | 6PF | 0.5PF | . 16V |
| CN7401 | 1-750-333-11 | CONNECTOR, FFC/FPC (ZIF) 6P | C232 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| | | < DIODE > | C233 | 1-135-201-11 | TANTALUM CHIP | | 20% | 4V |
| | | | C234 | 1-104-847-11 | TANTAL, CHIP | 22uF | 20% | 4V |
| D7401 | 8-719-404-49 | DIODE MA111-TX | C235 C236 | 1-107-820-11 1-135-201-11 | CERAMIC CHIP TANTALUM CHIP | 0.1uF 10uF | 20% | 16V 4V |
| | | <10> | 0230 | 1-100-201-11 | TAINTALOW OTH | Toui | 2070 | 7.0 |
| | | | C237 | 1-115-156-11 | | 1uF | 0 FDF | 10V |
| IC7401 | 8-749-013-13 | IC RS-70-TU | C238 C239 | 1-164-850-11 1-164-850-11 | | 10PF 10PF | 0.5PF 0.5PF | 16V 16V |
| | | | C240 | 1-164-346-11 | | 1uF | 0.011 | 16V |
| | A-7073-675-A | SE-75 BOARD, COMPLETE | C247 | 1-163-021-91 | CERAMIC CHIP | 0.01uF | 10% | 50V |
| | , | ************************************** | C248 | 1-163-021-91 | CERAMIC CHIP | 0.01uF | 10% | 50V |
| | | (1181.14010,000 001103) | C249 | 1-163-021-91 | | 0.01uF | 10% | 50V |
| | | < CAPACITOR > | C250 | 1-164-850-11 | | 10PF | 0.5PF | 16V |
| CAEO | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | C252 C253 | 1-115-156-11 1-115-156-11 | | 1uF 1uF | | 10V 10V |
| C450 C451 | 1-135-201-11 | | 0200 | 1 110 100 11 | | , | | |
| | | | C254 | 1-115-156-11 | | 1uF | 20% | 10V 4V |
| | | < CONNECTOR > | C255 C256 | 1-135-201-11 1-135-201-11 | TANTALUM CHIP | | 20% | 4V 4V |
| CN450 | 1-774-631-21 | CONNECTOR, FFC/FPC 6P | C257 | 1-135-201-11 | | | 20% | 4V |
| | | | C258 | 1-135-201-11 | TANTALUM CHIP | 10uF | 20% | 4V |
| | | < COIL > | C259 | 1-135-201-11 | TANTALUM CHIP | 10uF | 20% | 4V |
| L450 | 1-414-754-11 | INDUCTOR 10uH | C260 | 1-135-201-11 | | 10uF | 20% | 4V |
| | | | C262 | 1-104-852-11 | | 22uF | 20% | 10V 16V |
| | | < SENSOR > | C300 C301 | 1-107-820-11 1-107-820-11 | | 0.1uF 0.1uF | | 16V |
| SE450 | 1-803-042-31 | | | | | | | |
| SE451 | 1-803-042-41 | | C302 | 1-107-820-11 | | 0.1uF | 20% | 16V 4V |
| عد أنه دوريز فيد المدان | garant myani ya makamatan m | and the state of t | C303 C305 | 1-135-201-11 1-125-777-11 | | 0.1uF | 10% | 10V |
| | A-7093-974-A | VC-208 BOARD, COMPLETE | C306 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | | ******* | C307 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |

| | A-7073-075-A | ********** | | | | 0241 | , 100 02 . 0 . | | | | |
|--|--|---|--|---|---|--|--|---|--|--|--|
| | | | | ef No ·10 í | 000 Series) | C248 | 1-163-021-91 | CERAMIC CHIP | 0.01uF | 10% | 50V |
| | | | (11 | 01.14010, | 300 001100) | C249 | 1-163-021-91 | CERAMIC CHIP | 0.01uF | 10% | 50V |
| | | < CAPACITOR > | | | | C250 | 1-164-850-11 | CERAMIC CHIP | 10PF | 0.5PF | 16V |
| | | COALACITOR > | | | | C252 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C450 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V | C253 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| | 1-135-201-11 | TANTALUM CHIP | | 20% | 4V | 0200 | 1 110 100 11 | 02/0/00/00 | , | | |
| C451 | 1-130-201-11 | TANTALOW GITT | 1001 | 2070 | 70 | C254 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| | | < CONNECTOR > | | | | C255 | 1-135-201-11 | TANTALUM CHIP | | 20% | 4V |
| | | < GOIVINEOTOTI > | | | | C256 | 1-135-201-11 | TANTALUM CHIP | | 20% | 4V |
| 001450 | 4 774 004 04 | CONNECTOR, FFO | C/EDC GD | | | C257 | 1-135-201-11 | TANTALUM CHIP | | 20% | 4V |
| CN450 | 1-774-631-21 | CONNECTOR, FF | U/FF 0F | | | C258 | 1-135-201-11 | TANTALUM CHIP | | 20% | 4V |
| | | < COIL > | | | | 0230 | 1-100-201-11 | IAMIALOW OTH | 1 Oui | 2070 | |
| | | < GUIL > | | | | C259 | 1-135-201-11 | TANTALUM CHIF | 10uF | 20% | 4V |
| | 4 44 4 75 4 4 4 | INDUCTOR 10uH | | | | C260 | 1-135-201-11 | TANTALUM CHIP | | 20% | 4V |
| L450 | 1-414-754-11 | INDOCTOR TORK | 1 | | | C262 | 1-104-852-11 | TANTAL. CHIP | 22uF | 20% | 10V |
| | | CENCOD | | | | C300 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 2070 | 16V |
| | | < SENSOR > | | | | C301 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| 0= 1=0 | 1 000 010 01 | OFNOOD ANOU | AD VELOC | NITY (MAIA) | ` | 0301 | 1-107-020-11 | GERAWIO OTTI | o. rui | | 100 |
| SE450 | 1-803-042-31 | SENSOR, ANGUL | | | , | C302 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| SE451 | 1-803-042-41 | | | `` | | C303 | 1-135-201-11 | TANTALUM CHIF | | 20% | 4V |
| | and the second second second second | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | C305 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| | | VC-208 BOARD, | COMPLET | Ē | enge min in ennegge men | C305 C306 | 1-125-777-11 1-164-943-11 | CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.01uF | 10% 10% | 10V 16V |
| | | | COMPLET | E * | | C305 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| | | VC-208 BOARD, | COMPLET | E * | 000 Series) | C305 C306 C307 | 1-125-777-11 1-164-943-11 1-164-943-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.01uF 0.01uF | 10% 10% 10% | 10V 16V 16V |
| | | VC-208 BOARD, ******** | COMPLET | E * | | C305 C306 C307 | 1-125-777-11 1-164-943-11 1-164-943-11 1-104-847-11 | CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP | 0.1uF 0.01uF 0.01uF 22uF | 10% 10% | 10V 16V 16V 4V |
| | | VC-208 BOARD, | COMPLET | E * | | C305 C306 C307 C308 C309 | 1-125-777-11 1-164-943-11 1-164-943-11 1-104-847-11 1-107-820-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP CERAMIC CHIP | 0.1uF 0.01uF 0.01uF 22uF 0.1uF | 10% 10% 10% | 10V 16V 16V 4V 16V |
| | A-7093-974-A | VC-208 BOARD, ************************************ | COMPLET ******** (R | E * ef.No.:10, | 000 Series) | C305 C306 C307 C308 C309 C310 | 1-125-777-11 1-164-943-11 1-164-943-11 1-104-847-11 1-107-820-11 1-107-820-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.01uF 0.01uF 22uF 0.1uF | 10% 10% 10% 20% | 10V 16V 16V 4V 16V 16V |
| C201 | A-7093-974-A 1-107-682-11 | VC-208 BOARD, *********** < CAPACITOR > CERAMIC CHIP | COMPLET ******** (R | E * ef.No.:10, 10% | 000 Series) 16V | C305 C306 C307 C308 C309 C310 C311 | 1-125-777-11 1-164-943-11 1-164-943-11 1-104-847-11 1-107-820-11 1-107-820-11 1-164-943-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.01uF 0.01uF 22uF 0.1uF 0.1uF | 10% 10% 10% 20% | 10V 16V 16V 4V 16V 16V 16V |
| C201 C202 | A-7093-974-A 1-107-682-11 1-107-682-11 | VC-208 BOARD, ************************************ | COMPLET ********* (R 1uF 1uF | E ef.No.:10, 10% 10% | 000 Series) 16V 16V | C305 C306 C307 C308 C309 C310 | 1-125-777-11 1-164-943-11 1-164-943-11 1-104-847-11 1-107-820-11 1-107-820-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.01uF 0.01uF 22uF 0.1uF | 10% 10% 10% 20% | 10V 16V 16V 4V 16V 16V |
| C201 C202 C203 | A-7093-974-A 1-107-682-11 1-107-682-11 1-107-682-11 | VC-208 BOARD, ************ < CAPACITOR > CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | COMPLET ********** (R 1uF 1uF 1uF | E ef.No.:10, 10% 10% 10% | 000 Series) 16V 16V 16V | C305 C306 C307 C308 C309 C310 C311 C351 | 1-125-777-11 1-164-943-11 1-164-943-11 1-104-847-11 1-107-820-11 1-107-820-11 1-164-943-11 1-110-501-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.01uF 0.01uF 22uF 0.1uF 0.1uF 0.01uF 0.33uF | 10% 10% 10% 20% | 10V 16V 16V 4V 16V 16V 16V |
| C201 C202 C203 C204 | A-7093-974-A 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 | VC-208 BOARD, *********** < CAPACITOR > CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | COMPLET *********** (R 1uF 1uF 1uF 1uF | E ef.No.:10, 10% 10% 10% 10% | 000 Series) 16V 16V 16V 16V | C305 C306 C307 C308 C309 C310 C311 C351 | 1-125-777-11 1-164-943-11 1-164-943-11 1-104-847-11 1-107-820-11 1-107-820-11 1-164-943-11 1-110-501-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.01uF 0.01uF 22uF 0.1uF 0.1uF 0.01uF 0.33uF | 10% 10% 10% 20% 10% 10% | 10V 16V 16V 4V 16V 16V 16V 16V |
| C201 C202 C203 | A-7093-974-A 1-107-682-11 1-107-682-11 1-107-682-11 | VC-208 BOARD, ************ < CAPACITOR > CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | COMPLET ********** (R 1uF 1uF 1uF | E ef.No.:10, 10% 10% 10% | 000 Series) 16V 16V 16V | C305 C306 C307 C308 C309 C310 C311 C351 C353 | 1-125-777-11 1-164-943-11 1-164-943-11 1-104-847-11 1-107-820-11 1-107-820-11 1-164-943-11 1-110-501-11 1-107-725-11 1-110-501-11 | CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.01uF 0.01uF 22uF 0.1uF 0.1uF 0.01uF 0.33uF | 10% 10% 10% 20% 10% 10% 10% | 10V 16V 16V 4V 16V 16V 16V 16V 16V |
| C201 C202 C203 C204 C205 | 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 | VC-208 BOARD, ********** < CAPACITOR > CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | COMPLET ******** (R 1uF 1uF 1uF 1uF 1uF | E ef.No.:10, 10% 10% 10% 10% 10% | 16V 16V 16V 16V 16V 16V | C305 C306 C307 C308 C309 C310 C311 C351 C353 C354 C355 | 1-125-777-11 1-164-943-11 1-164-943-11 1-104-847-11 1-107-820-11 1-107-820-11 1-164-943-11 1-110-501-11 1-107-725-11 1-110-501-11 1-107-725-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.01uF 0.01uF 0.1uF 0.1uF 0.01uF 0.3uF 0.1uF 0.3uF | 10% 10% 10% 20% 20% | 10V 16V 16V 4V 16V 16V 16V 16V 16V 16V |
| C201 C202 C203 C204 C205 | 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 | VC-208 BOARD, *********** < CAPACITOR > CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | COMPLET ********* (R 1uF 1uF 1uF 1uF 1uF 1uF | E ef.No.:10, 10% 10% 10% 10% 10% | 16V 16V 16V 16V 16V 16V 16V | C305 C306 C307 C308 C309 C310 C311 C351 C353 C354 C355 C357 | 1-125-777-11 1-164-943-11 1-164-943-11 1-107-820-11 1-107-820-11 1-164-943-11 1-110-501-11 1-107-725-11 1-110-501-11 1-107-725-11 1-135-259-11 | CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP | 0.1uF 0.01uF 0.01uF 0.1uF 0.1uF 0.01uF 0.3uF 0.1uF 0.33uF 0.1uF 0.1uF | 10% 10% 10% 20% 20% | 10V 16V 16V 4V 16V 16V 16V 16V 16V 16V 16V 6.3V |
| C201 C202 C203 C204 C205 C206 C207 | 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-125-777-11 | VC-208 BOARD, *********** < CAPACITOR > CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | COMPLET ********* (R 1uF 1uF 1uF 1uF 1uF 1uF 0.1uF | E ef.No.:10, 10% 10% 10% 10% 10% 10% | 16V 16V 16V 16V 16V 16V 16V | C305 C306 C307 C308 C309 C310 C311 C351 C353 C354 C355 | 1-125-777-11 1-164-943-11 1-164-943-11 1-104-847-11 1-107-820-11 1-107-820-11 1-164-943-11 1-110-501-11 1-107-725-11 1-110-501-11 1-107-725-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.01uF 0.01uF 0.1uF 0.1uF 0.01uF 0.3uF 0.1uF 0.3uF | 10% 10% 10% 20% 20% | 10V 16V 16V 4V 16V 16V 16V 16V 16V 16V |
| C201 C202 C203 C204 C205 C206 C207 C208 | 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-125-777-11 1-125-777-11 | VC-208 BOARD, *********** < CAPACITOR > CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | COMPLET ********* (R 1uF 1uF 1uF 1uF 1uF 1uF 0.1uF | E ef. No.:10, 10% 10% 10% 10% 10% 10% 10% | 16V 16V 16V 16V 16V 16V 16V 10V | C305 C306 C307 C308 C309 C310 C311 C351 C353 C354 C355 C357 | 1-125-777-11 1-164-943-11 1-164-943-11 1-107-820-11 1-107-820-11 1-164-943-11 1-110-501-11 1-107-725-11 1-110-501-11 1-107-725-11 1-135-259-11 | CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP | 0.1uF 0.01uF 0.01uF 0.1uF 0.1uF 0.01uF 0.3uF 0.1uF 0.33uF 0.1uF 0.1uF | 10% 10% 10% 20% 20% | 10V 16V 16V 4V 16V 16V 16V 16V 16V 16V 16V 6.3V |
| C201 C202 C203 C204 C205 C206 C207 C208 C209 | 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-125-777-11 1-125-777-11 | VC-208 BOARD, *********** < CAPACITOR > CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | COMPLET ******** (R 1uF 1uF 1uF 1uF 1uF 0.1uF 0.1uF 0.1uF | E ef.No.:10, 10% 10% 10% 10% 10% 10% 10% 10% | 16V 16V 16V 16V 16V 16V 16V 10V 10V | C305 C306 C307 C308 C309 C310 C311 C351 C353 C354 C355 C357 | 1-125-777-11 1-164-943-11 1-164-943-11 1-107-820-11 1-107-820-11 1-164-943-11 1-110-501-11 1-107-725-11 1-110-501-11 1-107-725-11 1-135-259-11 | CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP | 0.1uF 0.01uF 0.01uF 0.1uF 0.1uF 0.01uF 0.3uF 0.1uF 0.33uF 0.1uF 0.1uF | 10% 10% 10% 20% 20% | 10V 16V 16V 4V 16V 16V 16V 16V 16V 16V 16V 6.3V |
| C201 C202 C203 C204 C205 C206 C207 C208 | 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-125-777-11 1-125-777-11 | VC-208 BOARD, *********** < CAPACITOR > CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | COMPLET ********* (R 1uF 1uF 1uF 1uF 1uF 1uF 0.1uF | E ef. No.:10, 10% 10% 10% 10% 10% 10% 10% | 16V 16V 16V 16V 16V 16V 16V 10V | C305 C306 C307 C308 C309 C310 C311 C351 C353 C354 C355 C357 | 1-125-777-11 1-164-943-11 1-164-943-11 1-107-820-11 1-107-820-11 1-164-943-11 1-110-501-11 1-107-725-11 1-110-501-11 1-107-725-11 1-135-259-11 | CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP | 0.1uF 0.01uF 0.01uF 0.1uF 0.1uF 0.01uF 0.3uF 0.1uF 0.33uF 0.1uF 0.1uF | 10% 10% 10% 20% 20% | 10V 16V 16V 4V 16V 16V 16V 16V 16V 16V 16V 6.3V |
| C201 C202 C203 C204 C205 C206 C207 C208 C209 | 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-125-777-11 1-125-777-11 | VC-208 BOARD, *********** < CAPACITOR > CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | COMPLET ******** (R 1uF 1uF 1uF 1uF 1uF 0.1uF 0.1uF 0.1uF | E ef.No.:10, 10% 10% 10% 10% 10% 10% 10% 10% | 16V 16V 16V 16V 16V 16V 16V 10V 10V | C305 C306 C307 C308 C309 C310 C311 C351 C353 C354 C355 C357 | 1-125-777-11 1-164-943-11 1-164-943-11 1-107-820-11 1-107-820-11 1-164-943-11 1-110-501-11 1-107-725-11 1-110-501-11 1-107-725-11 1-135-259-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.01uF 0.01uF 0.1uF 0.1uF 0.01uF 0.3uF 0.1uF 0.33uF 0.1uF 0.1uF | 10% 10% 10% 20% 20% | 10V 16V 16V 4V 16V 16V 16V 16V 16V 16V 16V 6.3V |
| C201 C202 C203 C204 C205 C206 C207 C208 C209 | 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-107-682-11 1-125-777-11 1-125-777-11 | VC-208 BOARD, *********** < CAPACITOR > CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | COMPLET ******** (R 1uF 1uF 1uF 1uF 1uF 0.1uF 0.1uF 0.1uF | E ef.No.:10, 10% 10% 10% 10% 10% 10% 10% 10% | 16V 16V 16V 16V 16V 16V 16V 10V 10V | C305 C306 C307 C308 C309 C310 C311 C351 C353 C354 C355 C357 | 1-125-777-11 1-164-943-11 1-164-943-11 1-107-820-11 1-107-820-11 1-164-943-11 1-110-501-11 1-107-725-11 1-107-725-11 1-107-725-11 1-135-259-11 1-162-958-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP TANTAL. CHIP CERAMIC CHIP SI identified by | 0.1uF 0.01uF 0.01uF 0.1uF 0.1uF 0.01uF 0.33uF 0.1uF 0.33uF 0.1uF 10uF 270PF | 10% 10% 10% 20% 10% 10% 10% 20% 5% | 10V 16V 16V 16V 16V 16V 16V 16V 16V 16V 50V |

me components identified by mark △ or dotted line with mark △ are critical for safety.

Replace only with part number specified.

une marque ∆ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

VC-208

| Ref. No. | Part No. | Description | | | Remarks | ΙR | ef. No. | Part No. | Description | | | Remarks |
|--------------|------------------------------|---------------|-------------------|-----------|----------|-----|--------------|------------------------------|---------------|----------------|-----|------------|
| | | | 270DE | 5% | 50V | - | C705 | 1-107-820-11 | CERAMIC CHIP | O fuE | | 16V |
| C359 | 1-162-958-11 1-164-942-11 | CERAMIC CHIP | 270PF 0.0068uF | 5% 10% | 16V | | C705 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 470PF | 10% | 16V 16V |
| C360 C361 | 1-164-942-11 | CERAMIC CHIP | 0.0068uF | 10% | 16V | | C722 | 1-164-935-11 | CERAMIC CHIP | 470PF | 10% | 16V |
| C368 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V | | C723 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 16V |
| C370 | 1-164-940-11 | CERAMIC CHIP | 0.0033uF | 10% | 16V | | C724 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 16V |
| C371 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V | | C725 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 16V |
| C372 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V | | C726 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 16V |
| C373 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V | | C727 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C374 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V | * | C728 | 1-119-923-81 | CERAMIC CHIP | 0.047uF | 10% | 10V |
| C375 | 1-164-940-11 | CERAMIC CHIP | 0.0033uF | 10% | 16V | | C729 | 1-218-990-11 | SHORT 0 | | | |
| C376 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V | | C730 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C377 | 1-135-151-21 | TANTALUM CHIP | | 20% | 4V | | C731 | 1-164-878-11 | CERAMIC CHIP | 150PF | 5% | 16V |
| C379 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 000/ | 16V | | C732 | 1-164-878-11 | CERAMIC CHIP | 150PF | 5% | 16V |
| C400 | 1-104-847-11 | TANTAL CHIP | 22uF | 20% | 4V 4V | | C733 C734 | 1-115-566-11 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V 10V |
| C401 | 1-104-847-11 | TANTAL. CHIP | 22uF | 20% | 40 | | 0/34 | 1-110-000-11 | CERAMIC CHIP | 4.7uF | 10% | 100 |
| C402 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V | | C735 | 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V |
| C403 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V | | C736 | 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V |
| C404 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V | | C738 | 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V |
| C405 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V | | C740 | 1-104-851-11 | TANTAL CHIP | 10uF | 20% | 10V |
| C406 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V | | C742 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C407 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V | | C743 | 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V |
| C408 | 1-104-908-11 | TANTAL. CHIP | 47uF | 20% | 4V | | C751 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C409 | 1-104-908-11 | TANTAL. CHIP | 47uF | 20% | 4V . | | C752 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C410 | 1-104-908-11 | TANTAL. CHIP | 47uF | 20% | 4V | | C753 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C411 | 1-104-908-11 | TANTAL. CHIP | 47uF | 20% | 4V | | C754 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C414 | 1-135-201-11 | TANTALUM CHIP | 10uF | 20% | 4V | | C755 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C415 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V | | C756 | 1-164-935-11 | CERAMIC CHIP | 470PF | 10% | 16V |
| C500 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | C757 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C501 | 1-164-941-11 | CERAMIC CHIP | 0.0047uF | 10% | 16V | | C758 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C502 | 1-164-943-11 | CERAMIC CHÍP | 0.01uF | 10% | 16V | | C759 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C503 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | C760 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C504 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | | C761 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C505 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | į | C762 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C506 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 16V | | C763 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C507 | 1-164-489-11 | CERAMIC CHIP | 0.22uF | 10% | 16V | | C764 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C508 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | C765 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C509 | 1-107-823-11 | CERAMIC CHIP | 0.47uF | 10% | 16V | | C766 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C510 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 16V | | C767 | 1-107-820-11 | CERAMIC CHIP | 0.1 uF | | 16V |
| C511 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | | C768 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C512 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 16V | | C770 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C514 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | ŀ | C771 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C515 | 1-104-847-11 | TANTAL. CHIP | 22uF | 20% | 4V | | C772 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C516 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V | | C1200 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C517 | 1-104-752-11 | TANTAL. CHIP | 33uF | 20% | 6.3V | | C1201 | 1-109-982-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C518 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | | C1202 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C519 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | ' | C1203 | 1-104-851-11 | TANTAL. CHIP | 10uF | 20% | 10V |
| C520 | 1-164-941-11 | | 0.0047uF | 10% | 16V | | C1204 | 1-135-210-11 | TANTALUM CHIP | 4.7uF | 20% | 10V |
| C521 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | | C1205 | 1-135-210-11 | TANTALUM CHIP | 4.7uF | 20% | 10V |
| C522 | 1-125-777-11 | | 0.1uF | 10% | 10V | | C1206 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C523 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 16V | | C1207 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C524 | 1-110-501-11 | CERAMIC CHIP | 0.33uF | 10% | 16V | | C1208 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C525 | 1-107-823-11 | | 0.47uF | 10% | 16V | | C1209 | 1-109-982-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C526 | 1-164-937-11 | | 0.001uF | 10% | 16V | | C1210 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C527 | 1-164-943-11 | | 0.01uF | 10% | 16V | | C1211 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C528 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 16V | | C1212 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C530 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | | C1213 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C531 | 1-104-847-11 | TANTAL, CHIP | 22uF | 20% | 4V | | C1214 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C701 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V | ĺ | C1215 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 16V |
| C702 | 1-107-820-11 | | 0.1uF | | 16V | | C1216 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C703 | 1-104-851-11 | TANTAL. CHIP | 10uF | 20% | 10V | l . | C1217 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |

VC-208

| | | | | | | D . M | Maria de Maria | Downsules |
|----------------|---------------------------|--|-------------|------------|----------------|--------------|---|----------------|
| Ref. No. | <u>Part No.</u> | <u>Description</u> | | Remarks | Ref. No. | Part No. | <u>Description</u> | <u>Remarks</u> |
| C1218 | | CERAMIC CHIP 0.01uF | 10% | 16V | IC351 | 8-759-359-49 | | |
| C1219 | 1-135-259-11 | | 20% | 6.3V | IC352 | | IC NJM3414AV(TE2) | |
| C1220 | | CERAMIC CHIP 0.01 uF | 10% | 16V | IC354 IC355 | | IC NJM3403AV(TE2) IC SN74HCT04APW-E20 | |
| C1221 | | CERAMIC CHIP 0.01uF CERAMIC CHIP 0.01uF | 10% 10% | 16V 16V | 10355 10356 | | IC NJM3403AV(TE2) | |
| C1222 | 1-164-943-11 | GERAINIC CHIP G.UTUF | 1070 | ,100 | 10000 | 0-700-000 40 | 10 NONO-TOOK (122) | |
| C1223 | 1-135-259-11 | TANTAL, CHIP 10uF | 20% | 6.3V | IC357 | 8-759-075-66 | IC TA75S01F(TE85R) | |
| C1224 | | CERAMIC CHIP 100PF | 5% | 16V | IC400 | 8-759-489-19 | IC uPC6756GR-8JG-E2 | |
| C1225 | | CERAMIC CHIP 2PF | 0.25PF | 16V | IC500 | | IC MPC17A134VMEL | |
| C1226 | 1-164-854-11 | CERAMIC CHIP 15PF | 5% | 16V | IC501 | | IC NJM324V(TE2) | |
| C1227 | 1-164-874-11 | CERAMIC CHIP 100PF | 5% | 16V | IC502 | 8-759-444-87 | IC NJM324V(TE2) | |
| | | | 5 0/ | 40)/ | 10704 | 0.750.540.05 | IC UC710119TF | |
| C1228 | | CERAMIC CHIP 18PF | 5% | 16V | IC701 | | IC HG71C112TE IC MB3817PFV-G-BND | |
| C1229 | | CERAMIC CHIP 18PF CERAMIC CHIP 0.01uF | 5% 10% | 16V 16V | IC721 IC722 | | IC MB3817PFV-G-BND | |
| C1230 C1231 | | CERAMIC CHIP 0.1uF | 10% | 10V 10V | IC751 | 8-759-567-99 | IC HD6437042AP10XSZ | |
| C1231 | 1-125-777-11 | | 10% | 10V | IC752 | | IC KM416V1204CT-L6T | |
| 01202 | 1 120 111 11 | OLI WING OTHER | | | | | | |
| C1233 | | CERAMIC CHIP 0.1uF | 10% | 10V | IC753 | | IC TC7S08F(TE85R) | |
| C1234 | | CERAMIC CHIP 100PF | 5% | 16V | IC754 | | IC TC7W125FU-TE12R | |
| C1235 | 1-164-943-11 | CERAMIC CHIP 0.01uF | 10% | 16V | IC755 | | IC TC7SH08FU-TE85R | |
| | | | | | IC756 | | IC CXD3133AR | |
| | | < CONNECTOR > | | , | IC757 | 8-759-547-24 | IC RL5V834/E2H | |
| ONOOO | 1 705 420-01 | CONNECTOR, BOARD TO | BOARD 40F | • | IC758 | 8-759-499-07 | IC MB81V4260S-70LPFTN-G-ER | |
| CN200 CN351 | | CONNECTOR, FFC/FPC 8F | | | IC759 | | IC MSM9831-SGX4880MAZ060 | |
| CN400 | | CONNECTOR, FFC/FPC 6F | | | IC760 | | IC AK6440AM-E2 | |
| CN500 | | CONNECTOR, FFC/FPC 26 | | | | | IC SC371053FTAEB | |
| CN900 | 1-779-518-41 | CONNECTOR, BOARD TO | BOARD 100 |)P | | | | |
| | | | | | | | < COIL > | |
| | | < DIODE > | | | 1,000 | 1 /1/ 75/ 11 | INDUCTOR 10uH | |
| 2001 | 0 740 400 04 | DIODE 1T379-01-T8A | | | L200 L201 | | INDUCTOR 10uH | |
| D204 | | DIODE MA2S111-(K8).S | n | | L300 | | INDUCTOR 10uH | |
| D500 D501 | | DIODE MA2S111-(K8).S | | | L301 | 1-414-754-11 | | |
| D721 | | DIODE RB491D-T146 | | | L351 | | INDUCTOR 10uH | |
| D722 | | DIODE RB461F-T106 | | | | | | |
| | | | | | L352 | | INDUCTOR 100uH | |
| D723 | | DIODE 1SS388(TPL3) | | | L400 | | INDUCTOR 10uH | |
| D724 | | DIODE 1SS388(TPL3) | | | L500 | | INDUCTOR 10uH INDUCTOR 10uH | |
| D1200 | | DIODE HVC350BTRF | | | L501 L503 | | INDUCTOR 10uH | |
| D1201 | 8-719-071-32 | DIODE HVC350BTRF | | | 2,000 | 1 414 754 11 | INDOGRATION. | |
| | | < FERRITE BEAD > | | | L721 | 1-416-344-11 | INDUCTOR 10uH | |
| | | VI E/1111/2 DE/10 | | | L722 | 1-416-344-11 | INDUCTOR 10uH | |
| FB200 | 1-414-445-11 | FERRITE OUH | | | L723 | | INDUCTOR 22uH | |
| FB201 | 1-469-311-22 | | | | L724 | | INDUCTOR 22uH | |
| FB202 | 1-414-445-11 | | | | L725 | 1-414-396-21 | INDUCTOR 4.7uH | |
| FB203 | 1-414-445-11 | | | | 1.706 | 1-216-296-91 | CHOPT O | |
| FB204 | 1-414-445-11 | | | | L726 L727 | | INDUCTOR 4.7uH | |
| EDAGO | 1-414-445-11 | FERRITE OUH | | | L751 | | INDUCTOR 10uH | |
| FB300 FB301 | 1-414-445-11 | | | * | L752 | | INDUCTOR 10uH | |
| FB501 | 1-414-445-11 | | | | L754 | | INDUCTOR 10uH | |
| FB752 | 1-543-955-22 | | | | | | | |
| FB754 | | | | | L1200 | | INDUCTOR 10uH | |
| | | | | | L1201 | | INDUCTOR 10uH | |
| | | < IC > | | | L1202 | | INDUCTOR 1.8uH INDUCTOR 33uH | |
| 10000 | 0.750.000.44 | IC CXA2107R-T4 | | | L1203 L1204 | | INDUCTOR 33uH | |
| IC203 | | IC CXA2107R-14 IC CXD2462R-T4 | | | L1204 | 1 412 001-11 | 500.0 | |
| IC204 IC205 | 8-759-561 - 39 | | | | L1205 | 1-414-754-11 | INDUCTOR 10uH | |
| IC205 | 8-759-561-39 | | | | | | | |
| IC207 | | IC ADS933Y/2K | | | | | < TRANSISTOR > | |
| | | | | | 0000 | 0.700.007.74 | TRANSISTOR LIMONALI (I/O) CO | |
| IC208 | | IC TC75S55F(TE85R) | | | Q200 | | TRANSISTOR UN9213J-(K8).SO TRANSISTOR UN9111J-(K8).SO | |
| IC300 | | IC CXD3116AR-T6 | | | Q201 Q301 | | TRANSISTOR UN9211J-(K8).SO | |
| IC301 | | IC AK6440AM-E2 IC CXP912032-090R-T6 | | | Q351 | | TRANSISTOR 2SB1462J-QR(K8). | 30 |
| IC302 IC305 | | IC MB88346LPFV-G-BN | | | Q352 | 8-729-037-74 | TRANSISTOR UN9213J-(K8).SO | |
| 10303 | 0 100 HAU-20 | ,5 ,0.5500 logi i v a biv | | | , | | | |

VC-208

| D. | of No | Part No | Description | | | | Remarks | Ref. No. | Part No. | Description | | | | Remarks |
|----------|--------------|------------------------------|--------------|-----|--------------|----------------|-----------|--------------|------------------------------|-------------|---|--------------|----------------|----------------|
| <u> </u> | ef. No. | Part No. | | | 004 50 1 110 | | Hemains | | | | | 417 | F0/ | |
| | Q353 | | TRANSISTOR | | | | | R302 | 1-218-953-11 | | | 1K | 5% | 1/16W |
| | Q354 | 8-729-013-31 | | | | | | R303 | 1-218-973-11 | | | 47K | 5% 5% | 1/16W |
| | Q500 | 8-729-037-53 | | | | | | R304 R305 | 1-218-977-11 1-218-953-11 | | | 100K 1K | 5% 5% | 1/16W 1/16W |
| | Q501 Q502 | 8-729-037-52 8-729-037-52 | | | | | | R306 | 1-218-955-11 | | | 100K | 5% | 1/16W |
| | Q502 | 0-729-037-32 | I LAISISION | 20 | D22103-Q1 | 1(10).50 | | N300 | 1-210-377-11 | nLo,01111 | | TOUR | J /0 | 1/1044 |
| | Q503 | 8-729-037-52 | TRANSISTOR | 28 | D2216J-QF | R(K8).SO | | R307 | 1-218-977-11 | RES.CHIP | | 100K | 5% | 1/16W |
| | Q504 | 8-729-037-52 | | | | | | R308 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| | Q505 | 8-729-037-53 | | | | | | R309 | 1-218-953-11 | | | 1K | 5% | 1/16W |
| | Q701 | 8-729-046-00 | | | | .() | | R311 | 1-218-989-11 | | | 1M | 5% | 1/16W |
| | Q702 | 8-729-037-74 | | | |).S0 | | R314 | 1-218-957-11 | | | 2.2K | 5% | 1/16W |
| | | | | | | | | | | | | | | |
| | Q721 | 8-729-043-94 | | | | | | R316 | 1-218-961-11 | | | 4.7K | 5% | 1/16W |
| | Q722 | 8-729-043-94 | | | | | | R317 | 1-218-961-11 | | | 4.7K | 5% | 1/16W |
| | 0727 | 8-729-024-48 | | | | | | R318 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| | Q751 | 8-729-037-74 | | | | | | R320 | 1-218-957-11 | | | 2.2K | 5% | 1/16W |
| | Q752 | 8-729-037-74 | TRANSISTUR | UIV | 19213J-(K8 |).50 | | R325 | 1-218-973-11 | RES,UNIP | | 47K | 5% | 1/16W |
| | Q753 | 8-729-037-74 | TRANSISTOR | UN | 9213J-(K8 | 0.80 | | R326 | 1-218-973-11 | RES.CHIP | | 47K | 5% | 1/16W |
| | Q754 | 8-729-037-61 | | | | , | | R327 | 1-218-953-11 | RES,CHIP | | 1K | 5% | 1/16W |
| | Q1200 | 8-729-807-86 | | | | | | R328 | 1-218-953-11 | RES, CHIP | | 1K | 5% | 1/16W |
| | Q1201 | 8-729-037-52 | | | | | | R329 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| | Q1202 | 8-729-037-52 | | | | | | R330 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| | | | | | | | | | | | | | | |
| | Q1203 | 8-729-037-52 | | | | | | R331 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| | Q1204 | 8-729-037-52 | | | | | | R332 | 1-218-989-11 | | | 1M | 5% | 1/16W |
| | Q1205 | 8-729-037-52 | | | | | | R333 | 1-218-989-11 | | | 1M | 5% | 1/16W |
| | Q1206 | 8-729-037-53 | | | | | | R334 | 1-218-953-11 | | _ | 1K | 5% | 1/16W |
| | Q1207 | 8-729-037-53 | TRANSISTOR | 28 | B1462J-QF | K(K8).SU | | R336 | 1-218-990-11 | SHORT | 0 | | | |
| | Q1208 | 8-729-037-76 | TRANSISTOR | UN | 9215J-(K8 |).SO | | R353 | 1-208-675-11 | BES.CHIP | | 470 | 0.50% | 1/16W |
| | Q1209 | 8-729-807-86 | | | | | | R354 | 1-208-927-11 | | | 47K | | 1/16W |
| | 4,200 | 0 . 20 00. 00 | | | | – | | R355 | 1-208-713-11 | | | 18K | | 1/16W |
| | | | < RESISTOR > | | | | | R357 | 1-208-719-11 | , | | 33K | 0.50% | 1/16W |
| | | | | | | | | R358 | 1-218-985-11 | • | | 470K | 0.50% | 1/16W |
| | R200 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W | | | • | | | | |
| | R201 | 1-218-935-11 | RES,CHIP | | 33 | 5% | 1/16W | R359 | 1-208-719-11 | RES,CHIP | | 33K | 0.50% | 1/16W |
| | R202 | 1-218-985-11 | RES,CHIP | | 470K | 5% | 1/16W | R360 | 1-208-927-11 | RES,CHIP | | 47K | 0.50% | 1/16W |
| | R203 | 1-218-934-11 | | | 27 | 5% | 1/16W | R361 | 1-208-683-11 | RES,CHIP | | 1K | 0.50% | 1/16W |
| | R204 | 1-218-935-11 | RES,CHIP | | 33 | 5% | 1/16W | R362 | 1-208-719-11 | | | 33K | 0.50% | 1/16W |
| | | | | | | | | R363 | 1-208-715-11 | RES,CHIP | | 22K | 0.50% | 1/16W |
| | R205 | 1-218-935-11 | | | 33 | 5% | 1/16W | D004 | 1 000 710 11 | DE0 0111D | | 001/ | 0.500/ | 4.40144 |
| | R207 | 1-218-990-11 | | 0 | | | | R364 | 1-208-719-11 | | | 33K | | 1/16W |
| | R208 | 1-218-990-11 | | 0 | | | | R365 | 1-208-927-11 | | | 47K | | 1/16W |
| | R209 | 1-218-990-11 | | 0 | | | | R366 R367 | 1-208-683-11 1-218-977-11 | | | 1K 100K | 0.50% · 5% | 1/16W 1/16W |
| | R210 | 1-218-990-11 | SHUNI | 0 | | | | R368 | 1-218-977-11 | | | 150K | 5% | 1/16W |
| | R211 | 1-218-990-11 | SHORT | 0 | | | | 1300 | 1-210-979-11 | NEO,OHIF | | TOOK | J /0 | 1/1000 |
| | R212 | 1-218-990-11 | | 0 | | | | R369 | 1-218-977-11 | RES.CHIP | | 100K | 5% | 1/16W |
| | R213 | 1-218-989-11 | | - | 1M . | 5% | 1/16W | R370 | 1-218-979-11 | | | 150K | 5% | 1/16W |
| | R214 | 1-218-989-11 | | | 1M | 5% | 1/16W | R371 | 1-208-927-11 | | | 47K | | 1/16W |
| | R215 | 1-218-989-11 | | | 1M | 5% | 1/16W | R372 | 1-208-927-11 | , | | 47K | | 1/16W |
| | | | | | | | | R373 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| | R216 | 1-218-957-11 | | | 2.2K | 5% | 1/16W | | | | | | | |
| | R217 | 1-208-712-11 | RES,CHIP | | 16K | 0.50% | 1/16W | R374 | 1-208-939-11 | | | 150K | 0.50% | |
| | R218 | 1-208-683-11 | | | 1K | | 1/16W | R375 | 1-208-939-11 | | | 150K | 0.50% | |
| | R220 | 1-208-947-11 | | | 330K | 0.50% | | R376 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| | R221 | 1 - 218-985-11 | RES,CHIP | | 470K | 0.50% | 1/16W | R377 | 1-208-715-11 | RES,CHIP | | 22K | 0.50% | |
| | DOOC | 4 000 740 44 | DEC OTHE | | 101/ | 0 E00/ | 1/1/01/4/ | R378 | 1-208-715-11 | RES,CHIP | | 22K | 0.50% | 1/16W |
| | R222 | 1-208-713-11 | | | 18K | 0.50% | | D270 | 1 200 707 11 | DEC CLID | | 101/ | 0 500/ | 1/16/1/ |
| | R223 | 1-208-713-11 1-208-713-11 | | | 18K 18K | 0.50% 0.50% | | R379 R380 | 1-208-707-11 1-208-707-11 | • | | 10K 10K | 0.50% 0.50% | 1/16W 1/16W |
| | R224 R225 | 1-208-713-11 | | | 18K | 0.50% | | R381 | 1-208-707-11 | RES, CHIP | | 68K | 0.50% 5% | 1/16W |
| | R225 R226 | 1-208-713-11 | | | 18K | | 1/16W | R382 | | RES,CHIP | | 68K | 5% 5% | 1/16W |
| | 11220 | 1 200 / 10-11 | 1.20,01111 | | 1011 | 5.00 /0 | ., | R383 | 1-218-975-11 | | | 68K | 5% | 1/16W |
| | R227 | 1-208-713-11 | RES,CHIP | | 18K | 0.50% | 1/16W | | | | | - | | |
| | R236 | 1-218-990-11 | SHORT | 0 | | | | R384 | 1-218-975-11 | RES,CHIP | | 68K | 5% | 1/16W |
| | R237 | 1-218-965-11 | | | 10K | 5% | 1/16W | R385 | | RES,CHIP | | 68K | 5% | 1/16W |
| | R300 | 1-218-977-11 | | | 100K | 5% | 1/16W | R386 | | RES,CHIP | | 68K | 5% | 1/16W |
| | R301 | 1-218-973-11 | RES,CHIP | | 47K | 5% | 1/16W | R387 | 1-218-953-11 | , | | 1K | 5% | 1/16W |
| | | | | | | | . | R388 | 1-218-973-11 | HES,CHIP | | 47K | 5% | 1/16W |

| Ref. No. | Part No. | <u>Description</u> | | | | <u>Remarks</u> | Ref. No. | Part No. | <u>Description</u> | | | | <u>Remarks</u> |
|----------|--------------|--------------------|---|-------|-------------|----------------|----------|-----------------------|--------------------|---|-------|----------|----------------|
| R389 | 1-218-953-11 | RES,CHIP | | 1K | 5% | 1/16W | R701 | 1-218-989-11 | RES,CHIP | | 1M | 5% | 1/16W |
| R390 | 1-218-965-11 | | | 10K | 5% | 1/16W | R702 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R391 | 1-218-985-11 | | | 470K | 0.50% | 1/16W | R703 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R392 | 1-208-715-11 | | | 22K | 0.50% | 1/16W | R704 | 1-216-295-91 | SHORT | 0 | | | |
| R393 | 1-208-931-11 | RES,CHIP | | 68K | 0.50% | 1/16W | R705 | 1-218-961-11 | RES,CHIP | | 4.7K | 5% | 1/16W |
| 2004 | 4 000 005 11 | DEC OUD | | 1001/ | 0.50% | 1/16W | R721 | 1-218-937-11 | RES,CHIP | | 47 | 5% | 1/16W |
| R394 | 1-208-935-11 | • | | 100K | | | | | RES,CHIP | | 150 | 5% | 1/16W |
| R395 | 1-208-931-11 | , | | 68K | 0.50% | 1/16W | R722 | 1-218-943-11 | RES.CHIP | | 10K | 5% | 1/16W |
| R396 | 1-208-935-11 | | | 100K | 0.50% | 1/16W | R723 | 1-218-965-11 | RES.CHIP | | | 5% | 1/16W |
| R400 | 1-218-969-11 | | | 22K | 5% | 1/16W | R724 | 1-218-965-11 | | | 10K | | |
| R401 | 1-218-969-11 | RES,CHIP | | 22K | 5% | 1/16W | R725 | 1-218-967-11 | RES,CHIP | | 15K | 5% | 1/16W |
| R402 | 1-218-969-11 | RES,CHIP | | 22K | 5% | 1/16W | R727 | 1-218-967-11 | RES,CHIP | | 15K | 5% | 1/16W |
| R403 | 1-218-969-11 | RES,CHIP | | 22K | 5% | 1/16W | R728 | 1-208-715-11 | RES,CHIP | | 22K | 0.50% | 1/16W |
| R404 | 1-218-965-11 | RES,CHIP | | 10K | 5% | 1/16W | R729 | 1-208-719-11 | RES,CHIP | | 33K | | 1/16W |
| R405 | 1-218-965-11 | RES,CHIP | | 10K | 5% | 1/16W | R730 | 1-208-927 - 11 | RES,CHIP | | 47K | 0.50% | 1/16W |
| R406 | 1-218-989-11 | RES,CHIP | | 1M | 5% | 1/16W | R731 | 1-208-697-11 | RES,CHIP | | 3.9K | 0.50% | 1/16W |
| R409 | 1-218-989-11 | RES,CHIP | | 1M | 5% | 1/16W | R732 | 1-208-927-11 | RES,CHIP | | 47K | 0.50% | 1/16W |
| R500 | 1-218-975-11 | RES,CHIP | | 68K | 5% | 1/16W | | 1-208-927-11 | RES,CHIP | | 47K | 0.50% | 1/16W |
| R501 | 1-218-961-11 | | | 4.7K | 5% | 1/16W | R740 | 1-218-990-11 | SHORT | 0 | | | |
| R502 | 1-216-295-91 | • | 0 | | • | | R741 | 1-208-927-11 | RES,CHIP | | 47K | 0.50% | 1/16W |
| R503 | 1-218-975-11 | RES,CHIP | ٠ | 68K | 5% | 1/16W | R742 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| nous | 1-210-375-11 | rico,oini | | OOK | | 1, 1011 | | | | | | | |
| R505 | 1-218-953-11 | RES,CHIP | | 1K | 5% | 1/16W | R743 | 1 - 218-989-11 | RES,CHIP | | 1M | 5% | 1/16W |
| R506 | 1-218-989-11 | RES,CHIP | | 1M | 5% | 1/16W | R744 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| R507 | 1-218-957-11 | RES,CHIP | | 2.2K | 5% | 1/16W | R745 | 1-218-990-11 | | 0 | | | |
| R508 | 1-218-965-11 | RES,CHIP | | 10K | 5% | 1/16W | R751 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R509 | 1-218-981-11 | | | 220K | 5% | 1/16W | R754 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R510 | 1-218-985-11 | RES,CHIP | | 470K | 5% | 1/16W | R755 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R511 | 1-218-985-11 | | | 470K | 5% | 1/16W | R756 | 1-218-958-11 | | | 2.7K | 5% | 1/16W |
| R512 | 1-218-957-11 | | | 2.2K | -5% | 1/16W | R757 | 1-218-946-11 | RES,CHIP | | 270 | 5% | 1/16W |
| R513 | 1-218-967-11 | | | 15K | 5% | 1/16W | R758 | 1-218-944-11 | RES,CHIP | | 180 | 5% | 1/16W |
| R514 | 1-218-969-11 | | | 22K | 5% | 1/16W | R759 | 1-218-932-11 | | | 18 | 5% | 1/16W |
| | 4 040 005 44 | מרכ פווום | | 470V | E0/ | 1/16/// | R760 | 1-218-990-11 | SHORT | 0 | | | |
| R515 | 1-218-985-11 | | | 470K | 5% | 1/16W | | | SHORT | 0 | | | |
| R516 | 1-218-953-11 | | | 1K | 5% | 1/16W | R761 | 1-218-990-11 | | U | 47K | 5% | 1/16W |
| R517 | 1-218-953-11 | | | 1K | 5% | 1/16W | R763 | 1-218-973-11 | RES,CHIP | | | | 1/16W |
| F518 | 1-218-947-11 | | | 330 | 5% | 1/16W | R764 | 1-218-973-11 | RES,CHIP | | 47K | 5% | |
| R519 | 1-218-969-11 | RES,CHIP | | 22K | 5% | 1/16W | R765 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R520 | 1-218-953-11 | RES,CHIP | | 1K | 5% | 1/16W | R766 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| R521 | 1-218-965-11 | RES,CHIP | | 10K | 5% | 1/16W | -R767 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| R522 | 1-218-973-11 | RES,CHIP | | 47K | 5% | . 1/16W | R768 | 1-218-977-11 | • | | 100K | 5% | 1/16W |
| R523 | 1-216-295-91 | SHORT | 0 | | | | R769 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R525 | 1-218-953-11 | RES,CHIP | | 1K | 5% | 1/16W | R770 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R526 | 1-218-989-11 | RES,CHIP | | 1M . | 5% | 1/16W | R771 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R527 | 1-218-957-11 | | | 2.2K | 5% | 1/16W | R772 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| R528 | 1-218-965-11 | | | 10K | 5% | 1/16W | R773 | 1-218-977-11 | • | | 100K | 5% | 1/16W |
| R529 | 1-218-981-11 | | | 220K | 5% | 1/16W | R774 | 1-218-977-11 | RES, CHIP | | 100K | 5% | 1/16W |
| R530 | 1-218-985-11 | | | 470K | 5% | 1/16W | R775 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| 11000 | | • | | | | | | | r | | | | . 4 4 0 14 |
| R531 | 1-218-985-11 | | | 470K | 5% | 1/16W | R776 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R532 | 1-218-957-11 | | | 2.2K | 5% | 1/16W | R777 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| R533 | 1-218-967-11 | | | 15K | 5% | 1/16W | R778 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R534 | 1-218-969-11 | RES,CHIP | | 22K | 5% | 1/16W | R779 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| R535 | 1-218-985-11 | RES,CHIP | | 470K | 5% | 1/16W | R780 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R536 | 1-218-953-11 | RES,CHIP | | 1K | 5% | 1/16W | R781 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R537 | 1-218-953-11 | | | 1K | 5% | 1/16W | R782 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R538 | 1-218-947-11 | | | 330 | 5% | 1/16W | R783 | 1-218-977-11 | RES,CHIP | | 100K | 5% | 1/16W |
| R539 | 1-218-969-11 | | | 22K | 5% | 1/16W | R784 | 1-218-977-11 | • | | 100K | 5% | 1/16W |
| R540 | 1-218-953-11 | | | 1K | 5% | 1/16W | R785 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| | | BEC 01= | | 4011 | F0/ | 4 (4 (2) *** | D.700 | 1 040 077 4: | חבר מויים | | 1001/ | E0/ | 4/46// |
| R541 | 1-218-965-11 | | | 10K | 5% | 1/16W | R786 | 1-218-977-11 | | | 100K | 5% | 1/16W |
| R542 | 1-218-973-11 | | | 47K | 5% | 1/16W | R787 | 1-218-977-11 | RES,CHIP | ^ | 100K | 5% | 1/16W |
| R543 | 1-218-973-11 | | _ | 47K | 5% | 1/16W | R788 | 1-218-990-11 | SHORT | 0 | 101/ | E0/ | 1/16W |
| R544 | 1-218-990-11 | | 0 | 4 717 | F 0/ | 4 (4 0) 4 (| R789 | 1-218-965-11 | | | 10K | 5% 5% | 1/16W |
| R545 | 1-218-961-11 | RES,CHIP | | 4.7K | 5% | 1/16W | R790 | 1-218-965-11 | KEO,UMIP | | 10K | 5% | 1/1000 |

VC-208 VF-121

| Ref. N | lo. | Part No. | Description | | | <u>Remarks</u> | Ref. No. | Part No. | Description | | | <u>Remarks</u> |
|----------------|------------|------------------------------|----------------------------------|-------------|------------|----------------|----------------|------------------------------|----------------------------------|--------------|------|----------------|
| R7: | | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W | C5006 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| R7: | | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W | C5007 | 1-135-181-21 | TANTALUM CHIP | 4.7uF | 20% | 6.3V |
| R7: | | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W | C5008 | 1-135-181-21 | TANTALUM CHIP | 4.7uF | 20% | 6.3V |
| R7 | | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | C5009 | 1-135-181-21 | TANTALUM CHIP | 4.7uF | 20% | 6.3V |
| R7 | | 1-107-820-11 | CERAMIC CHIP | 0.1MF | | 16V | C5010 | 1-135-179-21 | TANTAL. CHIP | 2.2uF | 20% | 16V |
| R8 | 200 | 1-218-990-11 | SHORT 0 | | | | C5011 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| no R8 | | 1-218-990-11 | SHORT 0 | | | | C5012 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | 1070 | 16V |
| R8 | | 1-218-990-11 | SHORT 0 | | | | C5013 | 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V |
| R8 | | | RES,CHIP | 100K | 5% | 1/16W | C5015 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| R8 | | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W | C5016 | 1-135-181-21 | TANTALUM CHIP | 4.7uF | 20% | 6.3V |
| D0 | 307 | 1-218-990-11 | SHORT 0 | | | | C5017 | 1-164-933-11 | CERAMIC CHIP | 220PF | 10% | 16V |
| | 308 | 1-218-990-11 | SHORT 0 | | | | C5018 | 1-164-933-11 | CERAMIC CHIP | 220PF | 10% | 16V |
| | 309 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | C5019 | 1-164-933-11 | | 220PF | 10% | 16V |
| | | 1-218-990-11 | SHORT 0 | | | | C5020 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| | 920 | 1-218-990-11 | SHORT 0 | | | | C5101 | 1 -1 15-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V |
| R1 | 1202 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W | C5102 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | 1203 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W | C5103 | 1-104-851-11 | TANTAL, CHIP | 10uF | 20% | 10V |
| | 1204 | 1-218-973-11 | RES,CHIP | 47K | 5% | 1/16W | C5104 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| | 1205 | 1-218-950-11 | RES,CHIP | 560 | 5% | 1/16W | C5105 | 1-104-916-11 | TANTAL. CHIP | 6.8uF | 20% | 20V |
| | 1206 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W | C5106 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 16V |
| D1 | 1207 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | C5108 | 1-135-181-21 | TANTALUM CHIP | 4.7uF | 20% | 6.3V |
| | 1208 | 1-218-959-11 | RES,CHIP | 3.3K | 5% | 1/16W | C5109 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V |
| | 1209 | 1-218-979-11 | RES,CHIP | 150K | 5% | 1/16W | C5110 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V |
| | 1210 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | C5111 | 1-164-943-11 | CERAMIC CHIP | 0.01 uF | 10% | 16V |
| | 1211 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W | C5112 | 1-109-982-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| R- | 1212 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | C5113 | 1-164-878-11 | CERAMIC CHIP | 150PF | 5% | 16V |
| | 1213 | 1-218-957-11 | RES,CHIP | 2.2K | 5% | 1/16W | C5114 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | 1214 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | C5115 | 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V |
| | 1215 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | C5116 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | 1216 | 1-218-959-11 | RES,CHIP | 3.3K | 5% | 1/16W | C5117 | 1-164-940-11 | CERAMIC CHIP | 0.0033uF | 10% | 16V |
| R. | 1217 | 1-218-952-11 | RES,CHIP | 820 | 5% | 1/16W | C5118 | 1-164-858-11 | CERAMIC CHIP | 22PF | 5% | 16V |
| | 1218 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W | C5119 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| | 1219 | 1-218-965-11 | RES,CHIP | 10K | 5% | · 1/16W | C5120 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| R. | 1266 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | C5121 | 1-164-943-11 | CERAMIC CHIP | 0.01 uF | 10% | 16V |
| R | 1267 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W | C5122 | 1-164-940-11 | CERAMIC CHIP | 0.0033uF | 10% | 16V |
| R | 1268 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W | C5123 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| R [.] | 1269 | 1-218-941-11 | RES,CHIP | 100 | 5% | 1/16W | | | * | | | |
| R | 1270 | 1-218-989-11 | | 1M | 5% | 1/16W | | | < CONNECTOR > | | | |
| R | 1271 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W | CN5001 | 1_78/_/20_11 | CONNECTOR, FFC | /EDC (71E) 2 |)1 D | |
| | | | < VIBRATOR > | | | | | | CONNECTOR, BOX | | | |
| | | 4 707 500 01 | VIDDATOD ODVO | TAL /078/LI | \ | | | | < DIODE > | | | |
| | 200 300 | 1-767-586-21 1-767-450-11 | VIBRATOR, CRYS VIBRATOR, CERA | | | | | | < DIODE > | | | |
| | 751 | | VIBRATOR, LITHIU | | | /lHz) | D5101 | | DIODE MA6S121 | | | |
| X | 1200 | 1-781-068-21 | VIBRATOR, CRYS | TAL (40.5M | Hz) | | D5102 | 8-713-102-80 | DIODE 1T369-01 | -T8A | | |
| | | | | | | | | | < IC > | | | |
| | | A-7073-682-A | VF-121 BOARD, C | | | | 105004 | 0.750.546.05 | IC CVA044EAD T | •4 | | |
| | | | ****** | | No 10 0 | 00 Series) | IC5001 | | IC CXA8115AR-T IC M62376GP-65 | | | |
| | | | | (1101. | .14010,0 | oo oenes) | IC5002 | | IC MB40D001PF | | 3 | |
| | | | < CAPACITOR > | | | | IC5101 | | IC MB3789PFV-G | | | |
| | | | (0/11/10/10/17 | | | | IC5102 | | IC CXD2458AR-T | | | |
| | 5001 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V | | | | | | |
| | 5002 | | CERAMIC CHIP | 0.01uF | 10% | 16V | | | < COIL > | | | |
| | 5003 | | TANTAL CHIP | 2.2uF | 20% | 16V | 1.5004 | 1 414 754 11 | INDUCTOR 40 !! | | | |
| | 5004 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% 10% | 16V 16V | L5001 L5002 | 1-414-754-11 1-414-754-11 | INDUCTOR 10uH INDUCTOR 10uH | | | |
| C | 5005 | 1-104-943-11 | CERAMIC CHIP | 0.01uF | 10 /0 | 100 | L5002 L5101 | 1-414-734-11 | INDUCTOR CHIP | 220uH | | |
| | | | | | | | L5102 | 1-414-756-11 | INDUCTOR 47uH | | | |
| | | | | | | | L5103 | | INDUCTOR 4.7uH | | | |
| | | | | | | 1 | - | | | | | |

| F | Ref. No. | Part No. | Description | | | | <u>Remarks</u> | Ref. No. | Part No. | Description | | | Remarks |
|---|----------------|------------------------------|-----------------------|-----|-------------|----------|----------------|----------------|------------------------------|------------------------------------|------------------|------------|-------------|
| _ | | | < TRANSISTO | R > | | | | | | VI-151(D) BOARD VI-151(D) BOARD | | | |
| | Q5101 | 8-729-013-72 | TRANSISTOR | | | | | | | ****** | | | • |
| | Q5102 Q5103 | 8-729-037-61 8-729-037-74 | TRANSISTOR TRANSISTOR | | | | | | | | (Ref | f.No.:10,0 | 000 Series) |
| | Q3100 | 0 120 007 11 | | | | ,,,,,, | | | | < CAPACITOR > | | | |
| | | | < RESISTOR : | > | | | | C1400 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5001 | 1-218-990-11 | SHORT | 0 | | | | C1401 | 1-109-994-11 | CERAMIC CHIP | 2.2uF | 10% | 10V |
| | R5003 | 1-218-990-11 | SHORT | 0 | | | | C1402 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5005 | 1-218-971-11 | RES,CHIP | | 33K | 5% | 1/16W | C1403 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5008 | 1-218-969-11 | RES,CHIP | _ | 22K | 5% | 1/16W | C1404 | 1-104-851-11 | TANTAL. CHIP | 10uF | 20% | 10V |
| | R5016 | 1-218-990-11 | SHORT | 0 | | | | C1405 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5018 | 1-218-990-11 | SHORT | 0 | | | | C1409 | 1-109-982-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| | R5020 | 1-218-975-11 | RES,CHIP | • | 68K | 5% | 1/16W | C1418 | 1-109-982-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| | R5021 | 1-218-971-11 | RES,CHIP | | 33K | 5% | 1/16W | C1422 | 1-135-149-21 | TANTALUM CHIP | 2.2uF | 20% | 10V |
| | R5022 | 1-218-985-11 | RES,CHIP | | 470K | 5% | 1/16W | C1423 | 1-125-899-11 | TANTAL, CHIP | 220uF | 20% | 4V |
| | R5023 | 1-218-972-11 | RES,CHIP | | 39K | 5% | 1/16W | | | | | | |
| | | | DEC CLUB | | 001/ | En/ | 4 (4 ())) | C1433 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5024 | 1-218-972-11 | RES,CHIP | | 39K | 5% 5% | 1/16W 1/16W | C1434 C1436 | 1-162-970-11 1-135-149-21 | CERAMIC CHIP TANTALUM CHIP | 0.01uF | 10% 20% | 25V 10V |
| | R5025 R5026 | 1-218-975-11 1-218-971-11 | RES,CHIP RES,CHIP | | 68K 33K | 5% 5% | 1/16W | C1438 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5020 | 1-218-973-11 | | | 47K | 5% | 1/16W | C1439 | 1-125-899-11 | TANTAL. CHIP | 220uF | 20% | 4V |
| | R5028 | 1-218-972-11 | RES,CHIP | | 39K | 5% | 1/16W | | | | • | | |
| | | | | | | | | C1449 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5029 | 1-218-990-11 | SHORT | 0 | | | | C1450 | 1-104-851-11 | TANTAL. CHIP | 10uF | 20% | 10V |
| | R5030 | 1-218-941-11 | RES,CHIP | | 100 | 5% | 1/16W | C1451 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5031 | 1-218-941-11 | RES,CHIP | | 100 | 5% 5% | 1/16W 1/16W | C1452 C1503 | 1-164-858-11 1-164-943-11 | CERAMIC CHIP CERAMIC CHIP | 22PF 0.01uF | 5% 10% | 16V 16V |
| | R5035 R5038 | 1-218-941-11 1-218-990-11 | RES,CHIP SHORT | 0 | 100 | 376 | 1/1044 | 01505 | 1-104-343-11 | CERAIVIIC CRIF | 0.0 Tur | 10 /6 | 100 |
| | NJ030 | 1-210 330 11 | OHOIH | Ü | | | | C1505 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5039 | 1-218-990-11 | SHORT | 0 | | | | C1506 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5040 | 1-216-861-11 | METAL CHIP | | 2.2M | 5% | 1/16W | C1507 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5041 | 1-216-839-11 | METAL CHIP | _ | 33K | 5% | 1/16W | C1512 | 1-104-847-11 | TANTAL. CHIP | 22uF | 20% | 4V |
| | R5043 | 1-218-990-11 | SHORT | 0 | 100 | E0/ | 1/16W | C1513 | 1-109-982-11 | CERAMIC CHIP | 1uF | 10% | 1,0V |
| | R5045 | 1-218-941-11 | RES,CHIP | | 100 | 5% | 1/1044 | C1600 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| | R5046 | 1-218-941-11 | RES.CHIP | | 100 | 5% | 1/16W | C1601 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 16V |
| | R5047 | 1-218-941-11 | RES,CHIP | | 100 | 5% | 1/16W | C1602 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 16V |
| | R5101 | 1-216-864-11 | METAL CHIP | | 0 | 5% | 1/16W | C1603 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 16V . |
| | R5102 | 1-218-901-11 | RES,CHIP | | 180K | 0.50% | 1/16W | C1604 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5103 | 1-218-975-11 | RES,CHIP | | 68K | 5% | 1/16W | C1606 | 1-164-850-11 | CERAMIC CHIP | 10PF | 0.5PF | 16V |
| | R5104 | 1-218-974-11 | RES,CHIP | | 56K | 5% | 1/16W | C1607 | 1-164-850-11 | CERAMIC CHIP | 10PF | 0.5PF | 16V |
| | R5104 | 1-218-887-11 | | | 47K | 0.50% | 1/16W | C1609 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5106 | 1-218-975-11 | | | 68K | 5% | 1/16W | C1610 | 1-164-933-11 | CERAMIC CHIP | 220PF | 10% | 16V |
| | R5107 | 1-218-970-11 | | | 27K | 5% | 1/16W | C1611 | 1-164-858-11 | CERAMIC CHIP | 22PF | 5% | 16V |
| | R5108 | 1-218-982-11 | RES,CHIP | | 270K | 5% | 1/16W | 04640 | 1 164 049 11 | CEDÁMIC CUID | 0.015 | 100/ | 161/ |
| | DE100 | 1-218-973-11 | RES,CHIP | | 47K | 5% | 1/16W | C1612 C1613 | 1-164-943-11 1-164-943-11 | CERAMIC CHIP CERAMIC CHIP | 0.01uF 0.01uF | 10% 10% | 16V 16V |
| | R5109 R5110 | 1-218-973-11 | • | | 56K | 5% 5% | 1/16W | C1614 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5111 | 1-218-965-11 | RES,CHIP | | 10K | 5% | 1/16W | C1615 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5113 | 1-218-979-11 | | | 150K | 5% | 1/16W | C1617 | 1-135-149-21 | TANTALUM CHIP | 2.2uF | 20% | 10V |
| | R5114 | 1-218-954-11 | RES,CHIP | | 1.2K | 5% | 1/16W | | | | **** | | |
| | M-225 | 4 040 000 44 | DEC OUR | | 1001/ | E0/ | 1/16/8/ | C1618 C1619 | 1-164-882-11 1-109-982-11 | CERAMIC CHIP CERAMIC CHIP | 220PF 1uF | 5% 10% | 16V 10V |
| | R5115 | 1-218-980-11 1-218-969-11 | RES,CHIP RES,CHIP | | 180K 22K | 5% 5% | 1/16W 1/16W | C1620 | 1-109-962-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| | R5116 R5117 | 1-218-985-11 | | | 470K | 5% | 1/16W | C1621 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| | R5118 | 1-218-983-11 | | | 330K | 5% | 1/16W | C1622 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| | R5119 | 1-218-971-11 | • | | 33K | 5% | 1/16W | | | | | | |
| | | | DEC 21 | | 43.0 | E0/ | 4/4000 | C1623 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| | R5120 | 1-218-989-11 | | | 1M | 5% | 1/16W | C1804 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 0.01uF | 10% 10% | 16V 16V |
| | R5121 | 1-218-974-11 1-218-965-11 | RES,CHIP RES,CHIP | | 56K 10K | 5% 5% | 1/16W 1/16W | C1833 C1834 | 1-164-943-11 1-164-943-11 | CERAMIC CHIP CERAMIC CHIP | 0.01uF 0.01uF | 10% | 16V 16V |
| | R5123 R5125 | 1-218-905-11 | | | 33K | 5% 5% | 1/16W | C1837 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5127 | 1-218-990-11 | • | 0 | 5511 | | ., | 0.307 | | 22.3.3.70 0110 | 2.2161 | . + , 0 | • |
| | | | | | | | | C1838 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5128 | 1-218-953-11 | RES,CHIP | | 1K | 5% | 1/16W | C1840 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | R5134 | 1-218-990-11 | SHORT SHORT | 0 | | | | C1844 C1845 | 1-164-943-11 1-135-259-11 | CERAMIC CHIP TANTAL. CHIP | 0.01uF 10uF | 10% 20% | 16V 6.3V |
| | R5136 | 1-218-990-11 | SHUNT | Ų | <u> </u> | | | C1846 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |

| Ref. No. | Part No. | Description | | | Remarks | Ref. No. | Part No. | <u>Description</u> | | | <u>Remarks</u> |
|----------|---|------------------|----------|------|---------|----------|-----------------------|--------------------|--------------------|-------|----------------|
| | | | 40 | 000/ | 10V | C2045 | 1-135-259-11 | TANTAL, CHIP | 10uF | 20% | 6.3V |
| C1847 | 1-104-851-11 | TANTAL, CHIP | 10uF | 20% | |) | | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C1850 | 1-164-866-11 | CERAMIC CHIP | 47PF | 5% | 16V | C2046 | 1-164-943-11 | | | | |
| C1852 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V | C2047 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C1854 | 1-164-866-11 | CERAMIC CHIP | 47PF | 5% | 16V | C2048 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C1856 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2049 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| • | | | | | | | | | | | |
| C1860 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2051 | 1-164-943-11 | CERAMIC CHIP | 0.01 uF | 10% | 16V |
| C1869 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2053 | 1-164-943-11 | CERAMIC CHIP | 0.01 uF | 10% | 16V |
| | 1-104-851-11 | TANTAL. CHIP | 10uF | 20% | 10V | C2054 | 1-164-245-11 | CERAMIC CHIP | 0.015uF | 10% | 25V |
| C1875 | | CERAMIC CHIP | 0.1uF | 10% | 10V | C2055 | 1-164-245-11 | CERAMIC CHIP | 0.015uF | 10% | 25V |
| C1878 | 1-125-777-11 | | | | 16V | C2056 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C1881 | 1-164-935-11 | CERAMIC CHIP | 470PF | 10% | 100 | 02000 | 1-104-343-11 | OLITAWIO OTITI | 0.0141 | 1070 | 100 |
| | | 050 4440 01110 | 0.04 | 400/ | 101 | 00006 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C1884 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2206 | | | | | |
| C1885 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C2210 | 1-107-820-11 | | 0.1uF | | 16V |
| C1886 | 1-125-777 <i>-</i> 11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C2211 | 1-107-820-11 | | 0.1uF | | 16V |
| C1887 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2212 | 1-119-749-11 | TANTAL. CHIP | 33uF | 20% | 4V |
| C1888 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2213 | 1-104-851-11 | TANTAL. CHIP | 10uF | 20% | 10V |
| • | | | | | | | | | | | |
| C1889 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2215 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C1890 | 1-164-935-11 | CERAMIC CHIP | 470PF | 10% | 16V | C2216 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C1891 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2217 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| | | | 0.01uF | 10% | 16V | C2218 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C1901 | 1-164-943-11 | CERAMIC CHIP | | | | | | CERAMIC CHIP | 0.01 uF | 10% | 16V |
| C1903 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V | C2219 | 1-164-943-11 | GENAMING GRIF | 0.01ul | 10 /0 | 100 |
| | | | | | 401/ | 00000 | 4 404 040 44 | OFDANAIO OUID | 0.01 | 10% | 16V |
| C1904 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2220 | 1-164-943-11 | CERAMIC CHIP | 0.01 uF | | |
| C1909 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C2221 | 1-164-943-11 | CERAMIC CHIP | 0.01 uF | 10% | 16V |
| C1910 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2222 | 1 - 164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C1914 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2223 | 1-164-943-11 | CERAMIC CHIP | 0.01 uF | 10% | 16V |
| C1915 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V | C2224 | 1-164-943-11 | CERAMIC CHIP | 0.01 uF | 10% | 16V |
| 0,0.0 | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | 1 | | | | | |
| C1933 | 1-135-180-21 | TANTALUM CHIP | 3.3uF | 20% | 6.3V | C2225 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C2001 | 1-107-823-11 | | 0.47uF | 10% | 16V | C2226 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | | 16V |
| | | | 0.47uF | 10% | 16V | C2227 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V |
| C2002 | 1-107-823-11 | | | | | C2232 | 1-164-858-11 | | 22PF | 5% | 16V |
| C2003 | 1-164-943-11 | | 0.01uF | 10% | 16V | | | | 15PF | 5% | 16V |
| C2004 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2233 | 1-164-854-11 | CERAMIC CHIP | IDFF | J /0 | 10 V |
| | | | | | | | 4 407 000 44 | OED AMAG OUID | 0.46 | | 101/ |
| C2007 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V | C2234 | 1-107-820-11 | | 0.1uF | | 16V |
| C2008 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V | C2237 | 1-107-820-11 | | 0.1uF | | 16V |
| C2009 | 1-110-569-11 | TANTAL. CHIP | 47uF | 20% | 6.3V | C2238 | 1-135-091-00 | TANTALUM CHIP | 1uF | 20% | 16V |
| C2010 | 1-110-569-11 | | 47uF | 20% | 6.3V | C2239 | 1-164-942-11 | CERAMIC CHIP | 0.0068uF | 10% | 16V |
| C2012 | 1-107-823-11 | | 0.47uF | 10% | 16V | C2400 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 16V |
| 02012 | 1-107-020-11 | OLI II MINO OTTA | ,0,11,01 | | | | | | | | |
| C2014 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V | C2402 | 1-164-850-11 | CERAMIC CHIP | 10PF | 0.5PF | 16V |
| | | | 0.01uF | 10% | 16V | | | CERAMIC CHIP | 10PF | 0.5PF | 16V |
| C2015 | 1-164-943-11 | | | | | C2405 | | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C2016 | 1-107-823-11 | | 0.47uF | 10% | 16V | | | | 0.01uF | 10% | 16V |
| C2017 | 1-164-874-11 | | 100PF | 5% | 16V | C2408 | 1-164-943-11 | | | | |
| C2018 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V | C2409 | 1-164-943-11 | CERAMIC CHIP | 0.01 uF | 10% | 16V |
| | | * | | | | | | OED ANAIO OLUB | 4 | 400/ | 401/ |
| C2022 | 1 - 107-686-11 | TANTAL. CHIP | 4.7uF | 20% | 16V | C2410 | 1-109-982-11 | | 1uF | 10% | 10V |
| C2024 | 1-135-091-00 | TANTALUM CHIP | 1uF | 20% | 16V | C2500 | 1-164-941-11 | | 0.0047uF | 10% | 16V |
| C2025 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V | C2507 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 16V |
| C2027 | 1-164-943-11 | | 0.01uF | 10% | 16V | C2546 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C2028 | 1-107-823-11 | | 0.47uF | 10% | 16V | C2550 | 1-164-739-11 | CERAMIC CHIP | 560PF | 5% | 50V |
| OLOLO | | | | | | | | | | | |
| C2029 | 1-109-982-11 | CERAMIC CHIP | 1uF | 10% | 10V | C2551 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C2030 | 1-164-874-11 | | 100PF | 5% | 16V | C2552 | 1-125-777-11 | | 0.1uF | 10% | 10V |
| | | | 0.47uF | 10% | 16V | C2553 | | TANTALUM CHIP | | 20% | 16V |
| C2031 | 1-107-823-11 | | | | | C2554 | | CERAMIC CHIP | 0.0047uF | 10% | 16V |
| C2032 | 1-135-259-11 | | 10uF | 20% | 6.3V | | | | 0.0047 di 0.1uF | 10% | 10V |
| C2033 | 1-109-982-11 | CERAMIC CHIP | 1uF | 10% | 10V | C2555 | 1-120-777-11 | CERAMIC CHIP | U. Tur | 10 /0 | 100 |
| | | | | | | 00550 | 4 404 007 44 | OFFI ANALO OLUB | 0.004 | +00/ | 161/ |
| C2034 | 1 - 164-943-11 | | 0.01uF | 10% | 16V | C2556 | | CERAMIC CHIP | 0.001uF | 10% | 16V |
| C2035 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2557 | 1-125-777-11 | | 0.1uF | 10% | 10V |
| C2036 | 1-107-823-11 | | 0.47uF | 10% | 16V | C2558 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C2037 | 1-135-259-11 | | 10uF | 20% | 6.3V | C2559 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C2038 | 1-164-943-11 | | 0.01uF | 10% | 16V | C2561 | 1-107-686-11 | | 4.7uF | 20% | 16V |
| 02000 | | | | | * | | | | | | |
| C2039 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C2562 | 1-164-943-11 | CERAMIC CHIP | 0.01 uF | 10% | 16V |
| C2040 | 1-135-259-11 | | 10uF | 20% | 6.3V | C2563 | 1-164-943-11 | | 0.01uF | 10% | 16V |
| | 1-135-259-11 | | 10uF | 20% | 6.3V | C2564 | | CERAMIC CHIP | 0.01uF | 10% | 16V |
| C2041 | | | | 20% | 6.3V | C2565 | | CERAMIC CHIP | 330PF | 5% | 50V |
| C2042 | 1-135-259-11 | | 10uF | | | C2566 | | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C2044 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | 1 02000 | 1-120-111-11 | OLIMBIIO OFIF | o. rui | 10/0 | |

| | | | | | | | | | | | D |
|----------------|------------------------------|------------------------------|---------------------|------------|----------------|----------------|------------------------------|------------------------------|--------------|------------|-------------|
| Ref. No. | Part No. | Description | | | <u>Remarks</u> | Ref. No. | Part No. | <u>Description</u> | | | Remarks |
| C2567 | 1-107-686-11 | TANTAL. CHIP | 4.7uF | 20% | 16V | C3242 | 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V |
| C2569 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C3243 | 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V |
| C2570 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V | C3244 | 1-109-982-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C2572 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C3245 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C2573 | 1-107-686-11 | TANTAL. CHIP | 4.7uF | 20% | 16V | C3246 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C2574 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V | C3247 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C2575 | 1-105-170-11 | CERAMIC CHIP | 0.047 di 0.1uF | 10% | 10V | C3248 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C2576 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C3249 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C2577 | 1-107-686-11 | TANTAL. CHIP | 4.7uF | 20% | 16V | C3250 | 1-135-259-11 | TANTAL, CHIP | 10uF | 20% | 6.3V |
| C2579 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C3251 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| | | | | | | 20050 | | TANTAL OUID | 40 | 000/ | 0.01 |
| C2582 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C3252 | 1-135-259-11 | TANTAL. CHIP TANTAL. CHIP | 10uF 10uF | 20% 20% | 6.3V 10V |
| C2583 | 1-107-686-11 | TANTAL. CHIP | 4.7uF | 20% 10% | 16V 10V | C3253 C3254 | 1-104-851-11 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V |
| C2585 | 1-125-777-11 | | 0.1uF 0.1uF | 10% | 10V 10V | C3254 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V 16V |
| C2586 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 0.1uF | 10% | 10V 10V | C3256 | 1-107-019-11 | TANTAL. CHIP | 10uF | 20% | 10V 10V |
| C2587 | 1-125-777-11 | CERAMIC CHIP | U.Tur | 1076 | 100 | 03230 | 1-104-031-11 | IAMIAL. OIIII | Tour | 2070 | 100 |
| C2588 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C3257 | 1-104-851-11 | TANTAL. CHIP | 10uF | 20% | 10V |
| C2589 | 1-164-943-11 | CERAMIC CHIP | 0.01uF | 10% | 16V | C3258 | 1-104-851-11 | TANTAL. CHIP | 10uF | 20% | 10V |
| C2590 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 16V | C3259 | 1-135-214-21 | TANTAL. CHIP | 4.7uF | 20% | 20V |
| C2591 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 16V | C3260 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C3200 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V | C3261 | 1-109-982-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| | | OED ANALO OLUD | 0.1 | 10% | 16V | C3262 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C3201 | 1-107-826-11 | CERAMIC CHIP CERAMIC CHIP | 0.1uF 0.047uF | 10% | 16V 16V | C3263 | 1-107-819-11 | | 0.022uF | 10% | 16V |
| C3202 | 1-165-176-11 1-107-826-11 | CERAMIC CHIP | 0.047ur 0.1uF | 10% | 16V | C3264 | 1-113-985-11 | TANTAL. CHIP | 10uF | 20% | 20V |
| C3203 | 1-107-020-11 | CERAMIC CHIP | 0.147uF | 10% | 16V | C3265 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C3204 | 1-105-170-11 | CERAMIC CHIP | 0.047 ur 0.022uF | 10% | 16V | C3266 | 1-115-467-11 | | 0.22uF | 10% | 10V |
| C3205 | 1-107-019-11 | CLIMINIO OTTI | 0.02201 | 10 70 | 101 | 00200 | 1 110 101 11 | 02.0.000 | 0,200 | , •,,- | |
| C3206 | 1-104-913-11 | TANTAL. CHIP | 10uF | 20% | 16V | C3267 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C3207 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C3269 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C3208 | 1-104-913-11 | TANTAL. CHIP | 10uF | 20% | 16V | C3270 | 1-119-751-11 | TANTAL. CHIP | 22uF | 20% | ,16V |
| C3209 | 1-164-874-11 | CERAMIC CHIP | 100PF | 5% | 16V | C3271 | 1-109-982-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C3210 | 1-119-751-11 | TANTAL. CHIP | 22uF | 20% | 16V | | | < CONNECTOR > | | | |
| 00011 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | | | < CONNECTOR > | • | | |
| C3211 C3212 | 1-162-966-11 | CERAMIC CHIP | 0.001ui | 10% | 50V | CN1810 | 1-573-350-11 | CONNECTOR, FF | C/FPC 10P | | |
| C3212 | 1-104-913-11 | TANTAL. CHIP | 10uF | 20% | 16V | 4 | 1-779-519-31 | | | OARD 100 |)P |
| C3215 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | | 1-784-421-11 | | | | |
| C3216 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | CN2903 | 1-784-423-21 | | | | |
| 00,210 | | | | | | CN2904 | 1-750-303-41 | CONNECTOR, BO | OARD TO BO | OARD 20F |) |
| C3217 | 1-162-962-11 | | 470PF | 10% | 50V | | | | | | |
| C3218 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | CN2905 | 1-779-334-11 | CONNECTOR, FF | C/FPC 20P | | _ |
| C3219 | 1-162-960-11 | | 220PF | 10% | 50V | | | CONNECTOR, BO | | DARD 60H | , |
| C3220 | 1-164-874-11 | | 100PF | 5% | 16V | | | CONNECTOR, FF | | | |
| C3221 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | | | CONNECTOR, FF | | 27P | |
| C3222 | 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V | CIVESTA | 1-704-421-11 | COMMECTOR, 11 | 0/11 0 (ZII) | 211 | |
| C3223 | 1-115-566-11 | | 4.7uF | 10% | 10V | CN2913 | 1-784-421-11 | CONNECTOR, FF | C/FPC (ZIF) | 27P | |
| C3224 | 1-164-939-11 | | 0.0022uF | 10% | 16V | l l | 1-580-057-11 | | R 4P ` ´ | | |
| C3225 | 1-164-940-11 | | 0.0033uF | 10% | 16V | CN3201 | 1-691-550-11 | PIN, CONNECTO | R (1.5MM) | (SMD) 3P | |
| C3226 | 1-164-939-11 | | 0.0022uF | 10% | 16V | | | | | | |
| | | | | 400/ | 4014 | | | < DIODE > | | | |
| C3227 | 1-164-939-11 | | 0.0022uF | | 16V | Dicon | 0.740.055.00 | DIODE 10/4/70 | TI 1 0 | | |
| C3228 | 1-164-940-11 | | 0.0033uF | | 16V | D1600 | | DIODE KV1470 | | | |
| C3229 | 1-164-939-11 | | 0.0022uF | 10% | 16V | D2200 | | DIODE MA728- DIODE MA728- | | | |
| C3230 | 1-164-939-11 | | 0.0022uF | 10% | 16V | D2201 D2203 | | DIODE MA2S1 | | | |
| C3231 | 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V | D2206 | | DIODE MA2S1 | | | |
| C3232 | 1-115-566-11 | CERAMIC CHIP | 4.7uF | 10% | 10V | | | | | | |
| C3233 | 1-115-566-11 | | 4.7uF | 10% | 10V | D2207 | | DIODE MA728- | | | |
| C3234 | 1-115-566-11 | | 4.7uF | 10% | 10V | D2208 | | DIODE MA728- | | | |
| C3235 | 1-115-566-11 | | 4.7uF | 10% | 10V | D2500 | | DIODE MA2S1 | , , | | |
| C3236 | 1-162-970-11 | | 0.01uF | 10% | 25V | D3200 | | DIODE MA728- | | | |
| | | | | 0.55 | 4611 | D3201 | 8-719-420-14 | DIODE MA8082 | ?-TX | | |
| C3237 | 1-104-851-11 | | 10uF | 20% | 10V | Doooc | 0 710 400 14 | DIODE MAROOS |)_TV | | |
| C3238 | 1-115-566-11 | | 4.7uF | 10% | 10V | D3202 | | DIODE MA8082 DIODE MA8082 | | | |
| C3239 | 1-115-566-11 | | 4.7uF | 10% 10% | 10V 10V | D3203 D3204 | | DIODE 188388 | | | |
| C3240 | 1-115-566-11 1-115-566-11 | | 4.7uF 4.7uF | 10% | 10V 10V | D3204 | | DIODE RB461F | | | |
| C3241 | 1-110-000-11 | OLI MINIO OHIF | ∓.1 ui | 10/0 | 130 | D3206 | | DIODE RB461F | | | |
| | | | | | | | | | | | |

| Ref. No | n 1 | Part No. | Description | Remarks | Ref. No. | Part No. | Description | | <u>Remarks</u> |
|------------|--------------|--|---|---------|----------------|--------------|----------------------------|--|----------------|
| | _ | | DIODE RB461F-T106 | | L2202 | _ | INDUCTOR 1u | Н | |
| D32 | | | DIODE 1SS388(TPL3) | | L2400 | | INDUCTOR 10 | | |
| D32 | 09 | 8-719-066 - 34 | DIODE RB461F-T106 | | L2511 | | INDUCTOR 10 | | |
| D32 | | 8-719-066-34 | DIODE RB461F-T106 | | L2512 | | INDUCTOR 10 | | |
| D32 | | | DIODE RB461F-T106 | | L3204 | 1-416-345-11 | INDUCTOR 22 | uH | |
| | | | DIODE DRIVAD TIVO | | 1000 | 1 410 040 11 | INDUCTOR 22 | uu · | |
| D32 | | 8-719-066-16 | DIODE RB491D-T146 DIODE MA796-TX | | L3205 L3206 | | INDUCTOR 33 INDUCTOR 22 | | |
| D32 D32 | 13 | 8-/19-02/ <i>-//</i> 9-710-066-3 <i>4</i> | DIODE RB461F-T106 | | L3200 | | INDUCTOR 22 | | |
| D32 | | | DIODE RB461F-T106 | | L3208 | | INDUCTOR 22 | | |
| D32 | | | DIODE 1SS388(TPL3) | | L3209 | 1-416-345-11 | INDUCTOR 22 | uH | |
| | | | | | | | | | |
| D32 | | | DIODE 1SS388(TPL3) | | L3210 | | INDUCTOR 4. | | |
| D32 | 220 | 8-719-056-48 | DIODE 1SS388(TPL3) DIODE 1SS388(TPL3) | | L3211 L3212 | | INDUCTOR 4.1 | | |
| D32 | 221 | 8-719-050-40 | DIODE 155388(TPL3) | | L3213 | | INDUCTOR 4. | | |
| D32 | 224 | 8-719-056-48 | DIODE 1SS388(TPL3) | | L3214 | | INDUCTOR 4. | | |
| | | | | | | | | | |
| D32 | | | DIODE MA2S111-(K8).S0 | | L3215 | | INDUCTOR 4. | | |
| D32 | 227 | 8-719-056-23 | DIODE MA2S111-(K8).SO | | | | INDUCTOR 4. | | |
| | | | < IC > | | L3217 L3218 | | INDUCTOR 4. INDUCTOR 4. | | |
| | | | < 10 > | | E3210 | 1-414-000-21 | 110001011 4. | , uii | |
| IC1 | 400 | 8-759-430-57 | IC M62367GP-75ED | | | • | < LINE FILTER | > | |
| IC1 | 402 | 8-759-534-25 | IC AN2222FBQ-EB | | | | | | |
| IC1 | 501 | 8-759-535-44 | IC M65511WG-600D | | LF3200 | 1-411-957-11 | FILTER, COMN | 10N MODE | |
| IC1 | 502 | 8-759-547-25 | IC MB90097PFV-G-110-BND-ER | | | | 10 FINIX | | |
| IC1 | 600 | 8-759-545-03 | IC HG73C037BPTL | | | | < IC LINK > | | |
| ICt | 601 | 8.752.390.00 | IC CXD3129R-T6 | | ↑ PS2200 | 1-576-122-21 | LINK. IC | 0.4A | |
| 101 101 | 602 | 8-752-390-00 | IC CXD3200R-T6 | | | 1-533-760-21 | | 1.4A | |
| IC1 | 814 | 8-752-086-52 | IC CXA2071R-T4 | | PS3201 | 1-533-760-21 | FUSE (SMD) | 1.4A | |
| IC1 | 816 | 8-752-086-53 | IC CXA2072R-T4 | | | 1-533-760-21 | | 1.4A | |
| IC1 | 900 | 8-759-534-27 | IC F712504BPM-TEB | | △ PS3203 | 1-533-760-21 | FUSE (SMD) | 1.4A | |
| 100 | 004 | 0 750 566 17 | IC AN2902FHQ-EB | | ↑ PS3204 | 1-533-760-21 | FUSE (SMD) | 1.4A | |
| | | | IC PCM3006T/T2 | | | 1-533-760-21 | | 1.4A | |
| IC2 | 2200 | 8-759-398-90 | IC S-81236PG-P7-T1 | | | 1-533-760-21 | | 1.4A | |
| 102 | 2201 | 8-759-424-79 | IC S-8423YFS-T2 | | | | | | |
| IC2 | 2203 | 8-759-536-72 | IC TL1596CPWR | | | | < TRANSISTO | R> | |
| | | 0 750 500 07 | 10 CEZOOCCOE TED | | 01400 | 0 700 007 50 | TDANGISTOD | 2SD2216J-QR(K8).S0 | |
| | 2204 2401 | | IC S579286GGB-TEB IC MB91191LGA-G-127-BND-ER | | | | | UN9113J-(K8).SO | |
| | | | IC AK6480AM-E2 | | Q1403 | | | 2SC5376-B(TE85L) | |
| | 2503 | 8-759-431-30 | IC CXA8062R-EB | | Q1405 | 8-729-040-77 | TRANSISTOR | 2SC5376-B(TE85L) | |
| 102 | 2504 | 8-759-385-94 | IC CXA8053Q-TE-B | | Q1406 | 8-729-040-77 | TRANSISTOR | 2SC5376-B(TE85L) | |
| | | | 10. The 1005(51) | | 04500 | 0.700.007.50 | TDANCICTOR | 0000016 L 00/(20) 00 | |
| | 2505 | 8-759-434-46 8-759-491-09 | IC TA8486F(EL) IC MB4488PFV-G-BND-ER | | Q1500 Q1501 | | | 2SD2216J-QR(K8).S0 2SD2216J-QR(K8).S0 | |
| 103 | 3200 | 0-759-491-09 | 10 MD4460F1 V-G-BND-EIT | | Q1502 | | | 2SD2216J-QR(K8).SO | |
| | | | < COIL > | | Q1810 | 8-729-037-53 | TRANSISTOR | 2SB1462J-QR(K8).SO | |
| | | | | | Q2003 | 8-729-037-61 | TRANSISTOR | UN9113J-(K8).SO | |
| | 400 | | INDUCTOR 10uH | | | | TRANSIOTOR | 11000404 (100) 00 | |
| | 404 | | INDUCTOR 10uH | | Q2004 Q2005 | | | UN9210J-(K8).SO UN9210J-(K8).SO | |
| | 500 501 | | INDUCTOR 100uH INDUCTOR 100uH | | Q2005 Q2006 | | | 2SD2216J-QR(K8).SO | |
| | 601 | | INDUCTOR 1.5uH | | Q2007 | | | 2SD2216J-QR(K8).SO | |
| | | | | | Q2008 | | | 2SD2216J-QR(K8).S0 | |
| | 602 | | INDUCTOR 10uH | | | | | 000001010000000000000000000000000000000 | |
| | 603 | | INDUCTOR 10uH | | Q2009 | | | 2SD2216J-QR(K8).S0 | |
| | 604 | | INDUCTOR 10uH INDUCTOR 10uH | | Q2011 Q2012 | | | UN9115J-(K8).SO UN9115J-(K8).SO | |
| | 605 803 | | INDUCTOR 10uH | | Q2012 Q2013 | | | UN9213J-(K8).SO | |
| LI | 500 | ון דענידור ו | | | Q2014 | | | 2SD1511-R/S(TX) | |
| Ĺ1: | 808 | | INDUCTOR 10uH | | | | | | |
| | 811 | | INDUCTOR 10uH | | | | | | |
| | 004 | | INDUCTOR 10uH | | | ` | | | |
| | 005 201 | | INDUCTOR 10uH INDUCTOR 10uH | | | | | • | - |
| LZ. | ZU I | 1-414-704-11 | IMPOOTOIT TOUT | | · ! | Note: | | Note: | e (|

Note:
The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ∆ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| - · · · · | D- + N- | Description | | Domorko | l Daf No | Part No | Description | | | Remarks |
|------------------|------------------------------|--------------------|--|----------------|----------------|---------------------------------|---|--------------------------|-------------|----------------|
| Ref. No. | Part No. | <u>Description</u> | | <u>Remarks</u> | Ref. No. | Part No. | Description | 0000010101 | | nemarks |
| Q2200 | | | UN9213J-(K8).SO | | Q3241 | | TRANSISTOR | | | |
| Q2201 | | | UN9213J-(K8).SO | | Q3242 Q3243 | | TRANSISTOR | | | |
| Q2202 | | | 2SD2216J-QR(K8).SO 2SD2216J-QR(K8).SO | | Q3243 | | | | | |
| Q2203 Q2206 | | | HN1L02FU(TE85R) | | Q3245 | | TRANSISTOR | | | |
| QZZOO | 0 720 0 11 10 | | | | | | | | , | |
| Q2211 | | | UN9111J-(K8).SO | | Q3246 | | TRANSISTOR | | | |
| Q2212 | | | 2SK2009(TE85L) | | Q3247 | | TRANSISTOR TRANSISTOR | | | |
| Q2213 | 8-729-427-70 | | | | Q3248 Q3249 | | TRANSISTOR | | | |
| Q2214 Q2216 | | | UN9113J-(K8).SO 2SB624-T1BV4 | | Q3249 Q3250 | | TRANSISTOR | | 1(110).50 | |
| QZZTO | 0-725-141-40 | MANDIOTOM | 200024 11044 | | 40200 | 0 120 0 11 20 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| Q2217 | 8-729-037-72 | TRANSISTOR | UN9211J-(K8).SO | | Q3251 | | TRANSISTOR | | | |
| Q2218 | | | UN9211J-(K8).SO | | Q3252 | | TRANSISTOR | | | |
| Q2219 | | | UN9211J-(K8).SO | | Q3253 | | | | | |
| Q2220 | | | UN9213J-(K8).SO | | Q3254 | 8-729-037-74 | TRANSISTOR | UN9213J-(K | 3).50 | |
| Q2221 | 8-729-037-52 | TRANSISTOR | 2SD2216J-QR(K8).SO | | | | < RESISTOR > | • | | |
| Q2505 | 8-729-037-74 | TRANSISTOR | UN9213J-(K8).SO | | | | \ TIE01010117 | | | |
| Q2506 | 8-729-141-48 | TRANSISTOR | 2SB624-T1BV4 | | R1400 | 1-218-981-11 | RES,CHIP | 220K | 5% | 1/16W |
| Q2507 | 8-729-037-52 | TRANSISTOR | 2SD2216J-QR(K8).SO | | R1401 | | | 100 | 5% | 1/16W |
| Q2901 | 8-729-037-72 | TRANSISTOR | UN9211J-(K8).SO | | R1403 | | | 4.7K | 5% | 1/16W |
| Q3200 | 8-729-024-48 | TRANSISTOR | 2SK1830-TE85L | | R1410 | | | 4.7K | 5% | 1/16W |
| | | | | | R1411 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W |
| ∆ Q3201 | 8-729-036-43 8-729-036-43 | | HAT1023R-EL | | R1414 | 1-218-969-11 | BES CHID | 22K | 5% | 1/16W |
| ∆ Q3202 Q3203 | | | 2SB1122-ST-TD | | R1417 | | | 10K | 5% | 1/16W |
| Q3203 Q3204 | | | UN9213J-(K8).SO | | R1418 | | | 22K | 5% | 1/16W |
| Q3205 | | | 2SK1830-TE85L | | R1419 | | | | . 5% | 1/16W |
| 40200 | 0 120 021 10 | | | | R1421 | | | 1K | 5% | 1/16W |
| Q3206 | | | 2SD1622-ST-TD | | | | | | | |
| Q3207 | - | | 2SB1462J-QR(K8).S0 | | R1425 | | | 33 | 5% | 1/16W |
| Q3208 | 8-729-804-41 | | 2SB1122-ST-TD | | R1426 | | | 10K | 5% 5% | 1/16W 1/16W |
| Q3209 | | | CPH3106-PM-TL | | R1430 R1432 | | | 1K 10K | 5% 5% | 1/16W |
| Q3210 | 8-729-043-94 | TRANSISTUR | CPH3106-PM-TL | | R1432 | | | 1K | 5% | 1/16W |
| Q3211 | 8-729-043-94 | TRANSISTOR | CPH3106-PM-TL | | 111400 | | 1120,01111 | | 970 | 1, 1011 |
| Q3212 | 8-729-043-94 | | CPH3106-PM-TL | 1 1 | R1434 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W |
| Q3213 | 8-729-043-94 | | CPH3106-PM-TL | | R1438 | | | 33 | 5% | 1/16W |
| Q3214 | 8-729-043-94 | TRANSISTOR | CPH3106-PM-TL | | R1439 | | | 33 | 5% | 1/16W |
| Q3215 | 8-729-037-52 | TRANSISTOR | 2SD2216J-QR(K8).SO | | R1440 | | | 10K | 5% | 1/16W |
| | 0 700 047 64 | TDANCIOTOD | 0004504 T4 | | R1445 | 1-218-935-11 | RES,CHIP | 33 | 5% | 1/16W |
| Q3216 | | TRANSISTOR | 2SB1581-11 2SB1462J-QR(K8).SO | | D1///6 | 1-218-935-11 | BES CHID | 33 | 5% | 1/16W |
| Q3217 Q3218 | 8-729-037-53 8-729-041-24 | | | | R1447 | | | 33 | 5% | 1/16W |
| Q3210 Q3219 | | | 2SD2216J-QR(K8).SO | | R1453 | | | 68 | 5% | 1/16W |
| Q3220 | 8-729-041-24 | | | | R1454 | | · | 1M | 5% | 1/16W |
| | | | | | R1455 | 1-218-957-11 | RES,CHIP | 2.2K | 5% | 1/16W |
| Q3221 | 8-729-041-24 | | | | | | | 4=-0 | =0/ | 4 4 6 1 1 |
| Q3222 | 8-729-041-24 | TRANSISTOR | | | R1507 | | | 470 | 5% | 1/16W |
| Q3223 | | TRANSISTOR | | | R1508 | | | 3.3K 4.7K | 5% 5% | 1/16W 1/16W |
| Q3224 | 8-729-041-24 | | UN9213J-(K8).SO | | R1509 R1510 | | | 470 | 5% | 1/16W |
| Q3225 | 8-729-037-74 | INANSISION | 01032100-(No).00 | | R1511 | | | 3.3K | 5% | 1/16W |
| Q3226 | 8-729-042-56 | TRANSISTOR | MGSF3455VT1 | | | | | | | |
| Q3227 | 8-729-037-61 | | UN9113J-(K8).SO | | R1512 | | | 4.7K | 5% | 1/16W |
| Q3228 | 8-729-037-74 | | UN9213J-(K8).SO | | R1513 | | | 1.5K | 5% | 1/16W |
| Q3229 | 8-729-037-74 | | UN9213J-(K8).SO | | R1514 | | | 470 | 5% | 1/16W |
| Q3230 | 8-729-041-23 | TRANSISTOR | NDS356AP | | R1515 R1516 | | | 4.7K 680 | 5% 5% | 1/16W 1/16W |
| Q3231 | 8-729-041-23 | TRANSISTOR | NDS356AP | | RISIO | 1-210-931-11 | NEO,OHII | 000 | J 70 | 171000 |
| Q3231 | 8-729-037-52 | | 2SD2216J-QR(K8).SO | • | R1517 | 1-218-990-11 | SHORT | 0 | | |
| Q3233 | | | 2SB1462J-QR(K8).SO | | R1519 | 1-218-990-11 | SHORT | 0 | | • |
| Q3234 | | TRANSISTOR | 2SD2216J-QR(K8).S0 | | R1521 | 1-218-947-11 | RES,CHIP | 330 | 5% | 1/16W |
| Q3235 | 8-729-037-53 | | 2SB1462J-QR(K8).SO | | R1522 | | | 0 | 5% | 1/16W |
| 00000 | 0 700 007 50 | TDANCIOTOR | 0001460100400 | | R1618 | 1-218-961-11 | RES,CHIP | 4.7K | 5% | 1/16W |
| Q3236 | | | 2SB1462J-QR(K8).SO 2SD2216J-QR(K8).SO | | | | | | | |
| Q3237 Q3238 | | | 2SD2216J-QR(K8).SO | | , | | | T | | |
| Q3239 | | | 2SB1462J-QR(K8).SO | | | Note: | n identification | Note: | anto ida | tifiée par |
| Q3240 | | | 2SB1462J-QR(K8).SO | | | The components mark △ or dotted | | Les compos une marque | | |
| | | | | | | | safety. | pour la sécu | rité. | , i |
| | | | | | _ | Replace only wit specified. | n part number | Ne les remp | | |
| | - | | | 6- | ·31 l | | ···· | | | 1 |

| Ref. No. | Part No. | <u>Description</u> | | | | <u>Remarks</u> | Ref. No. | Part No. | Description | | | | <u>Remarks</u> |
|---|---|----------------------------------|------------------|----------------------------------|--|---|---|--|----------------------------------|---|--------------------------------------|--|---|
| R1619 R1621 R1622 R1623 R1624 | 1-218-947-11 1-218-965-11 1-218-965-11 1-218-990-11 1-218-990-11 | RES,CHIP RES,CHIP SHORT | 0 | 330 10K 10K | 5% 5% 5% | 1/16W 1/16W 1/16W | R1943 R1945 R2017 R2018 R2019 | 1-218-990-11 1-218-990-11 1-218-936-11 1-218-935-11 1-218-953-11 | RES,CHIP | 0 | 39 33 1K | 5% | 1/16W 1/16W 1/16W |
| R1625 R1626 R1627 R1628 R1629 | 1-218-990-11 1-218-990-11 1-218-990-11 1-218-990-11 1-218-990-11 | SHORT SHORT SHORT | 0 0 0 0 | | | | R2021 R2022 R2023 R2028 R2029 | 1-218-965-11 1-218-965-11 1-218-953-11 1-218-973-11 1-218-973-11 | RES,CHIP | | 10K 10K 1K 47K 47K | 5% 5% 5% 5% 5% | 1/16W 1/16W 1/16W 1/16W 1/16W |
| R1630 R1632 R1633 R1635 R1638 | 1-218-990-11 1-218-849-11 1-208-703-11 1-218-849-11 1-218-990-11 | RES,CHIP RES,CHIP RES,CHIP | 0 | 1.2K 6.8K 1.2K | 0.50% 0.50% 0.50% | 1/16W 1/16W 1/16W | R2031 R2032 R2038 R2040 R2041 | 1-218-965-11 1-218-965-11 1-218-973-11 1-218-969-11 1-218-969-11 | | | 10K 10K 47K 22K 22K | 5% 5% 5% 5% 5% | 1/16W 1/16W 1/16W 1/16W 1/16W |
| R1639 R1641 R1642 R1644 R1647 | 1-218-990-11 1-218-990-11 1-218-990-11 1-218-990-11 1-218-990-11 | SHORT SHORT SHORT | 0 0 0 0 | | | | R2052 R2053 R2054 R2055 R2056 | 1-218-990-11 1-218-990-11 1-218-960-11 1-218-968-11 1-218-936-11 | SHORT RES,CHIP RES,CHIP | 0 | 3.9K 18K 39 | 5% 5% 5% | 1/16W 1/16W 1/16W |
| R1649 R1651 R1652 R1653 R1654 | 1-218-990-11 1-218-990-11 1-218-990-11 | SHORT SHORT SHORT | 0 0 0 0 | | | | R2057 R2058 R2059 R2060 R2061 | 1-218-935-11 1-218-957-11 1-218-957-11 1-218-957-11 1-218-957-11 | RES,CHIP RES,CHIP RES,CHIP | | 33 2.2K 2.2K 2.2K 2.2K | 5% 5% 5% 5% 5% | 1/16W 1/16W 1/16W 1/16W 1/16W |
| R1689 R1694 R1695 R1696 R1697 | 1-218-938-11 1-218-938-11 1-208-707-11 | RES,CHIP RES,CHIP RES,CHIP | | 47 56 56 10K 10K | 5% 0.50% 0.50% 0.50% 0.50% | 1/16W 1/16W 1/16W 1/16W 1/16W | R2062 R2063 R2064 R2065 R2066 | 1-218-949-11 1-218-949-11 1-218-953-11 1-218-951-11 1-218-965-11 | RES,CHIP RES,CHIP RES,CHIP | | 470 470 1K 680 10K | 5% 5% 5% 5% | 1/16W 1/16W 1/16W 1/16W |
| R1698 R1699 R1826 R1828 R1834 | 1-218-938-11 1-218-979-11 1-218-949-11 | RES,CHIP RES,CHIP RES,CHIP | | 56 56 150K 470 22K | 0.50% 0.50% 5% 5% 5% | 1/16W 1/16W 1/16W 1/16W 1/16W | R2201 R2203 R2204 R2205 R2206 | 1-218-953-11 1-218-953-11 1-218-953-11 1-218-977-11 1-218-945-11 | RES,CHIP RES,CHIP RES,CHIP | | 1K 1K 1K 100K 220 | 5% 5% 5% 5% 5% | 1/16W 1/16W 1/16W 1/16W 1/16W |
| R1836 R1837 R1838 R1846 R1846 | 7 1-218-965-11 3 1-218-969-11 3 1-218-831-11 | RES,CHIP RES,CHIP RES,CHIP | | 10K 10K 22K 220 10K | 5% 5% 5% 0.50% 5% | 1/16W 1/16W 1/16W 1/16W 1/16W | R2207 R2208 R2209 R2210 R2213 | 1-218-957-11 1-218-961-11 1-218-973-11 1-218-977-11 1-218-953-11 | RES,CHIP RES,CHIP RES,CHIP | | 2.2K 4.7K 47K 100K 1K | 5% 5% 5% 5% 5% | 1/16W 1/16W 1/16W 1/16W 1/16W |
| R1855 R1855 R1855 R1856 | 5 1-218-831-1 ⁻⁷ 7 1-218-831-1 ⁻⁷ 9 1-218-831-1 ⁻⁷ | RES,CHIP RES,CHIP RES,CHIP | | 4.7K 220 220 220 12K | 5% 0.50% 0.50% 0.50% 5% | | R2214 R2215 R2221 R2222 R2223 | 1-218-953-11 1-218-985-11 1-218-985-11 1-218-985-11 1-218-985-11 | RES,CHIP RES,CHIP RES,CHIP | | 1K 470K 470K 470K 470K | 5% 5% 5% 5% 5% | 1/16W 1/16W 1/16W 1/16W 1/16W |
| R187 R187 R187 R187 R187 | 1 1-218-939-1 2 1-218-990-1 4 1-218-989-1 | RES,CHIP SHORT RES,CHIP | 0 | 10K 68 1M 10K | 5% 5% 5% 5% | 1/16W 1/16W 1/16W 1/16W | R2224 R2225 R2226 R2227 R2229 | 1-218-985-11 1-218-985-11 1-218-985-11 1-218-977-11 1-218-985-11 | RES,CHIP RES,CHIP RES,CHIP | | 470K 470K 470K 100K 470K | 5% 5% 5% 5% 5% | 1/16W 1/16W 1/16W 1/16W 1/16W |
| R187 R187 R187 R187 R190 | 7 1-218-978-1 8 1-218-973-1 9 1-218-966-1 | RES,CHIP RES,CHIP RES,CHIP | | 6.8K 120K 47K 12K 15 | 5% 5% 5% 5% 5% | 1/16W 1/16W 1/16W 1/16W 1/16W | R2230 R2231 R2232 R2233 R2234 | 1-218-985-11 1-218-973-11 1-218-965-11 1-218-958-11 1-218-934-11 | RES,CHIP RES,CHIP RES,CHIP | | 470K 47K 10K 2.7K 27 | 5% 5% 5% 5% 5% | 1/16W 1/16W 1/16W 1/16W 1/16W |
| R193 R193 R194 R194 R194 | 9 1-218-990-1 0 1-218-990-1 1 1-218-990-1 | 1 SHORT 1 SHORT 1 SHORT | 0 0 0 0 | 100K | 5% | 1/16W | R2235 R2236 R2237 R2238 R2239 | 1-218-989-11 1-218-985-11 1-218-985-11 1-218-989-11 1-218-989-11 | RES,CHIP RES,CHIP RES,CHIP | | 1M 470K 470K 1M 1M | 5% 0.50% 0.50% 0.50% 0.50% | 1/16W 1/16W |

| Ref. No. | <u>Part No.</u> | <u>Description</u> | | | <u>Remarks</u> | Ref. No. | <u>Part No.</u> | <u>Description</u> | | | Remarks |
|----------------|-----------------|--------------------|----------|----------|----------------|----------|------------------------------|--------------------|--------------|-------------|----------------|
| R2240 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W | R2302 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W |
| R2241 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W | R2303 | 1-218-953-11 | | 1K | 5% | 1/16W |
| R2242 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W | R2304 | 1-218-953-11 | | 1K | 5% | 1/16W |
| R2245 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R2401 | 1-218-985-11 | | 470K | 5% | 1/16W |
| R2246 | 1-218-989-11 | RES,CHIP | 1M | 5% | 1/16W | R2405 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| 50547 | 1 010 077 11 | DEC OUID | 1001/ | 5% | 1/16W | R2406 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R2247 | 1-218-977-11 | RES,CHIP | 100K | 5% 5% | 1/16W 1/16W | R2400 | 1-218-977-11 | | 100K | 5% | 1/16W |
| R2248 | 1-218-989-11 | RES,CHIP | 1M | | 1/16W | R2407 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R2249 | 1-218-989-11 | RES,CHIP | 1M | 5% | 1/16W | R2409 | 1-218-985-11 | | 470K | 5% | 1/16W |
| R2250 | 1-218-989-11 | RES,CHIP | 1M | 5% 5% | 1/16W | R2409 | 1-218-953-11 | | 1K | 5% | 1/16W |
| R2251 | 1-218-989-11 | RES,CHIP | 1M | 370 | 171000 | 112410 | 1 210 300 11 | TIEO,OTTI | *** | 0 /0 | ., |
| R2252 | 1-218-989-11 | RES,CHIP | 1M | 5% | 1/16W | R2411 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W |
| R2253 | 1-218-989-11 | RES,CHIP | 1M | 5% | 1/16W | R2415 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W |
| R2254 | 1-218-989-11 | RES,CHIP | 1M | 5% | 1/16W | R2416 | 1-218-985-11 | RES,CHIP | 470K | 5% | 1/16W |
| R2255 | 1-218-989-11 | • | 1M | 5% | 1/16W | R2417 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W |
| R2256 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R2418 | 1-218-985-11 | RES,CHIP | 470K | 5% | 1/16W |
| | | | | | | | | | 417 | F0/ | 4 (4 0) 14 |
| R2257 | 1-218-973-11 | RES,CHIP | 47K | 5% | 1/16W | R2419 | 1-218-953-11 1-218-985-11 | | 1K 470K | 5% 5% | 1/16W 1/16W |
| R2258 | 1-218-985-11 | RES,CHIP | 470K | 5% | 1/16W | R2420 | 1-218-953-11 | | 470K | 5% | 1/16W |
| R2259 | 1-218-985-11 | RES,CHIP | 470K | 5% | 1/16W | R2421 | 1-218-985-11 | | 470K | 5% | 1/16W |
| R2260 | 1-218-985-11 | RES,CHIP | 470K | 5% | 1/16W | R2422 | | | | 5% | 1/16W |
| R2261 | 1-218-989-11 | RES,CHIP | 1M | 5% | 1/16W | R2423 | 1-218-953-11 | RES,CHIP | 1K | J 70 | 1/1000 |
| R2262 | 1-219-570-11 | RES,CHIP | 10M | 5% | 1/16W | R2424 | 1-218-985-11 | RES,CHIP | 470K | 5% | 1/16W |
| R2263 | 1-218-962-11 | RES,CHIP | 5.6K | 5% | 1/16W | R2425 | 1-218-990-11 | SHORT 0 | | | |
| R2264 | 1-218-957-11 | | 2.2K | 5% | 1/16W | R2426 | 1-218-990-11 | SHORT 0 | | | |
| R2265 | 1-218-977-11 | | 100K | 5% | 1/16W | R2427 | 1-218-990-11 | SHORT 0 | | | |
| R2266 | 1-218-985-11 | | 470K | 5% | 1/16W | R2428 | 1-218-990-11 | SHORT 0 | | | |
| | | | | | | | | | | 0 7700/ | : 4 (4 (5) 14) |
| R2267 | 1-218-985-11 | RES,CHIP | 470K | 5% | 1/16W | R2429 | 1-208-943-11 | | 220K | 0.50% | 1/16W |
| R2268 | 1-218-949-11 | * | 470 | 5% | 1/16W | R2430 | 1-208-927-11 | | 47K | 0.50% | 1/16W |
| R2269 | 1-218-955-11 | • | 1.5K | 5% | 1/16W | R2432 | 1-218-977-11 | | 100K | 5% | 1/16W |
| R2270 | 1-218-985-11 | | 470K | 5% | 1/16W | R2433 | 1-218-977-11 | · | 100K | 5% | 1/16W |
| R2271 | 1-216-791-11 | METAL CHIP | 3.3 | 5% | 1/16W | R2434 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| D2272 | 1-218-961-11 | RES,CHIP | 4.7K | 5% | 1/16W | R2436 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R2272 | 1-218-959-11 | | 3.3K | 5% | 1/16W | R2439 | 1-218-977-11 | | 100K | 5% | 1/16W |
| R2273 | 1-218-959-11 | | 3.3K | 5% | 1/16W | R2440 | 1-218-977-11 | | 100K | 5% | 1/16W |
| R2274 R2275 | 1-218-959-11 | | 3.3K | 5% | 1/16W | R2441 | 1-218-985-11 | | 470K | 5% | 1/16W |
| R2276 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R2442 | 1-218-990-11 | | | | |
| 112210 | 1 210 000 11 | 1123,31111 | | | | | | | | | |
| R2277 | 1-218-941-11 | RES,CHIP | 100 | 5% | 1/16W | R2445 | 1-218-961-11 | RES,CHIP | 4.7K | 5% | 1/16W |
| R2278 | 1-218-941-11 | RES,CHIP | 100 | 5% | 1/16W | R2505 | 1-218-965-11 | | 10K | 5% | 1/16W |
| R2279 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R2506 | 1-208-707-11 | | 10K | 0.50% | 1/16W |
| R2280 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R2507 | 1 - 218-965-11 | | 10K | 5% | 1/16W |
| R2281 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R2508 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W |
| | 1 010 050 44 | DEC OHID | 41/ | E0/ | 1/1CM | R2510 | 1-218-959-11 | DEC CHID | 3.3K | 5% | 1/16W |
| R2282 | 1-218-953-11 | | 1K 1K | 5% 5% | 1/16W 1/16W | R2510 | 1-208-935-11 | | 100K | 0.50% | 1/16W |
| R2283 | 1-218-953-11 | | 1K | 5% | 1/16W | R2512 | 1-218-990-11 | | 10010 | 0.0070 | ,, 1011 |
| R2284 | 1-218-953-11 | | 1K | 5% | 1/16W | R2517 | 1-218-989-11 | | 1M | 5% | 1/16W |
| R2285 | 1-218-953-11 | | 1K | 5% | 1/16W | R2530 | 1-218-971-11 | | 33K | 5% | 1/16W |
| R2286 | 1-218-953-11 | NEO, OTHE | 111 | 370 | 171000 | 112000 | 1 210 01 11 | 1120,01111 | 00.1 | 0,0 | ., |
| R2287 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R2531 | 1-217-671-11 | METAL CHIP | 1 | 5% | 1/10W |
| R2288 | 1-218-953-11 | RES, CHIP | 1K | 5% | 1/16W | R2532 | 1-217-671-11 | METAL CHIP | 1 | 5% | 1/10W |
| R2289 | 1-218-953-11 | | 1K | 5% | 1/16W | R2533 | 1-217-671-11 | METAL CHIP | 1 | 5% | 1/10W |
| R2290 | 1-218-953-11 | | 1K | 5% | 1/16W | R2534 | 1-218-940-11 | RES,CHIP | 82 | 5% | 1/16W |
| R2291 | 1-218-953-11 | | 1K | 5% | 1/16W | R2546 | 1-218-979-11 | RES,CHIP | 150K | 5% | 1/16W |
| | | DEO CLUE | 417 | Fo/ | 4/4/03/4 | D0547 | 1_010 066 11 | DEC CUID | 10K | 5% | 1/16W |
| R2292 | 1-218-953-11 | | 1K | 5% | 1/16W | R2547 | 1-218-965-11 | | 4.7K | 5% 5% | 1/16W |
| R2293 | 1-218-953-11 | | 1K | 5% | 1/16W | R2549 | 1-218-961-11 | | 4.7K 4.7K | 5% 5% | 1/16W |
| R2294 | 1-218-953-11 | | 1K | 5% | 1/16W | R2550 | 1-218-961-11 | | 4.7K 470 | 0.50% | 1/16W |
| R2295 | 1-218-953-11 | | 1K | 5% | 1/16W | R2551 | 1-208-675-11 | | 470 10K | 0.50% 5% | 1/16W |
| R2296 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R2552 | 1-218-965-11 | വധ,ഗവദ | ION | J /0 | 1/1000 |
| R2297 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R2553 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W |
| R2298 | 1-218-953-11 | | 1K | 5% | 1/16W | R2554 | 1-218-965-11 | | 10K | 5% | 1/16W |
| R2299 | 1-218-953-11 | | 1K | 5% | 1/16W | R2556 | 1-218-978-11 | RES,CHIP | 120K | 5% | 1/16W |
| R2300 | 1-218-989-11 | | 1M | 5% | 1/16W | R2557 | 1-218-986-11 | | 560K | 5% | 1/16W |
| R2301 | 1-218-953-11 | • | 1K | 5% | 1/16W | R2558 | 1-218-953-11 | | 1K . | 5% | 1/16W |
| 112001 | | • | | | | | | | | | |

| Ref. No. | Part No. | Description | | | | <u>Remarks</u> | Ref. No. | | Part No. | <u>Description</u> | | | <u>Remarks</u> |
|----------------|------------------------------|--------------|-----|------------|-------------|----------------|------------|-----|------------------------------|----------------------|--------------|----------------|----------------|
| | • | RES.CHIP | 2 | 2K | 5% | 1/16W | R322 | 8 | 1-218-969-11 | RES,CHIP | 22K | 5% | 1/16W |
| R2559 R2560 | 1-218-969-11 1-218-969-11 | RES,CHIP | | 2K | 5% | 1/16W | R323 | | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W |
| R2564 | 1-217-671-11 | METAL CHIP | 1 | | 5% | 1/10W | R323 | | 1-208-927-11 | RES,CHIP | 47K | | 1/16W |
| R2565 | 1-217-671-11 | METAL CHIP | - 1 | | 5% | 1/10W | R323 | | 1-218-969-11 | | 22K | 5% | 1/16W |
| R2566 | 1-218-941-11 | | 1 | 00 | 5% | 1/16W | R323 | 33 | 1-208-927-11 | RES,CHIP | 47K | 0.50% | 1/16W |
| R2567 | 1-218-941-11 | RES,CHIP | 1 | 00 | 5% | 1/16W | R323 | | 1-218-971-11 | RES,CHIP | 33K | 5% | 1/16W |
| R2568 | 1-218-941-11 | RES,CHIP | | 00 | 5% | 1/16W | R323 | | 1-208-715-11 | | 22K | 0.50% | 1/16W |
| R2569 | 1-218-957-11 | RES,CHIP | | 2.2K | 5% | 1/16W | R323 | | 1-218-965-11 | | 10K | 5% | 1/16W 1/16W |
| R2570 | 1-218-977-11 | | | 100K | 5% | 1/16W | R323 | | 1-218-974-11 | | 56K 56K | 0.50% 0.50% | 1/16W |
| R2571 | 1-218-970-11 | RES,CHIP | 2 | 27K | 5% | 1/16W | R323 | 88 | 1-218-974-11 | RES,UNIF | JOK | 0.50 /6 | • |
| R2572 | 1-218-965-11 | | | lok | 5% | 1/16W | R323 | | 1-208-715-11 1-208-935-11 | RES,CHIP RES,CHIP | 22K 100K | 0.50% 0.50% | 1/16W 1/16W |
| R2573 | 1-218-949-11 | | 1 | 170 | 5% 5% | 1/16W 1/10W | R324 | | 1-218-945-11 | RES,CHIP | 220 | 5% | 1/16W |
| R2574 | 1-217-671-11 1-217-671-11 | | 1 | | 5% | 1/10W | R324 | | 1-208-709-11 | | 12K | 0.50% | 1/16W |
| R2575 R2576 | 1-217-671-11 | | 1 | | 5% | 1/10W | R324 | | 1-208-697-11 | | 3.9K | 0.50% | 1/16W |
| R2577 | 1-217-671-11 | METAL CHIP | 1 | 1 | 5% | 1/10W | R324 | 44 | 1-208-697-11 | RES,CHIP | 3.9K | 0.50% | 1/16W |
| R2578 | 1-218-973-11 | | | 47K | 5% | 1/16W | R324 | 45 | 1-208-691-11 | RES,CHIP | 2.2K | 0.50% | 1/16W |
| R2579 | 1-218-965-11 | , | 1 | 10K | 5% | 1/16W | R324 | | 1-216-296-91 | | | | |
| R2580 | 1-218-935-11 | RES,CHIP | | 33 | 5% | 1/16W | R324 | | 1-218-965-11 | | 10K | 5% | 1/16W |
| R2581 | 1-218-935-11 | RES,CHIP | 3 | 33 | 5% | 1/16W | R324 | 48 | 1-218-945-11 | RES,CHIP | 220 | 5% | 1/16W |
| R2582 | 1-218-961-11 | RES,CHIP | | 4.7K | 5% | 1/16W | R324 | | 1-218-945-11 | | 220 | 5% | 1/16W |
| R2583 | 1-218-965-11 | | | 10K | 5% | 1/16W | R32 | | 1-218-969-11 | | 22K | 5% | 1/16W 1/16W |
| R2585 | 1-218-959-11 | | | 3.3K | 5% | 1/16W | R325 | | 1-218-973-11 | | 47K 100 | 5% 5% | 1/16W |
| R2586 | 1-218-944-11 | | | 180 | 5% | 1/16W 1/16W | R32 | | 1-218-941-11 1-218-941-11 | | 100 | 5% | 1/16W |
| R2587 | 1-218-969-11 | RES,CHIP | | 22K | 5% | 1/1000 | | | | | | | |
| R2599 | 1-217-671-11 | | | 1 | 5% | 1/10W | R32 | | 1-208-927-11 | | 47K | 0.50% | 1/16W |
| R2901 | 1-217-671-11 | | | 1 | 5% | 1/10W | R32 | | 1-218-945-11 1-218-947-11 | | 220 330 | 5% 5% | 1/16W 1/16W |
| R2902 | 1-217-671-11 | | | 1 - | 5% | 1/10W | R32 | | 1-218-947-11 | | 47K | 5% | 1/16W |
| R2903 | 1-218-990-11 | | | 4.7K | 5% | 1/16W | R32 | | 1-218-965-11 | | 10K | 5% | 1/16W |
| R2905 | 1-218-961-11 | | | 7.71 | 3 70 | 17 1000 | | | | | | 0.50% | 1/16W |
| R2906 | 1-218-990-11 | | | | | | R32 | | 1-208-719-11 1-208-715-11 | | 33K 22K | 0.50% 0.50% | 1/16W |
| R2907 | 1-218-990-11 | | | 480 | 5% | 1/16W | R32 | | 1-218-965-11 | | 10K | 5% | 1/16W |
| R3200 | 1-218-989-11 | | | 1M 1M | 5% 5% | 1/16W | R32 | | 1-218-989-11 | | 1M | 5% | 1/16W |
| R3201 R3202 | 1-218-989-11 1-218-849-11 | | | 3.3K | 0.50% | 1/16W | R32 | | 1-216-864-11 | | 0 | 5% | 1/16W |
| | | | | | | | | | 1-218-981-11 | | 220K | 5% | 1/16W |
| R3203 | 1-216-150-91 | | | 10 | 5% | 1/8W | R32 R32 | | 1-218-981-11 | | 47K | 5% | 1/16W |
| | 1-218-953-11 | RES,UHIP | | 1K 1K | 5% 5% | 1/16W 1/16W | R32 | | 1-218-969-11 | | 22K | 5% | 1/16W |
| R3205 R3206 | | RES,UTIF | | 4.7K | 5% | 1/16W | R32 | | 1-218-989-11 | | 1M | 5% | 1/16W |
| R3207 | | | | 3.3K | 0.50% | | R32 | | 1-218-981-11 | RES,CHIP | 220K | 5% | 1/16W |
| | • | | | 47K | 5% | 1/16W | R32 | 60 | 1-218-977-11 | BES CHIP | 100K | 5% | 1/16W |
| R3208 | | RES,UNIP | | 22K | 0.50% | 1/16W | R32 | | 1-218-989-11 | | 1M | 5% | 1/16W |
| R3209 R3210 | | | | 220K | 5% | 1/16W | R32 | | 1-218-977-11 | | 100K | 5% | 1/16W |
| R3211 | | | | | | | R32 | | 1-218-973-11 | | 47K | 5% | 1/16W |
| R3212 | | | | 1.0K | 0.50% | 1/16W | R32 | 273 | 1-218-965-11 | RES,CHIP | 10K | 5% : | 1/16W |
| R3213 | 1-208-935-1 | I RES,CHIP | | 100K | 0.50% | 1/16W | R32 | 274 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R3214 | | | | 1K | 5% | 1/16W | R32 | 75 | 1-218-988-11 | | 820K | 5% | 1/16W |
| R3215 | | | | | | | R32 | | 1-218-977-11 | | 100K | 5% | 1/16W |
| R3216 | | | | | = | | R32 | | 1-218-969-11 | | 22K | 5% 0.50% | 1/16W 1/16W |
| R3217 | 1 - 218-953-1 | I RES,CHIP | | 1K | 5% | 1/16W | R32 | 2/8 | 1-208-949-11 | RES,UNIP | 390K | 0.50% | |
| R3218 | 1-208-715-1 | 1 RES,CHIP | | 22K | 0.50% | | R32 | | 1-208-927-11 | | 47K | 0.50% | 1/16W |
| R3219 | 1-218-849-1 | I RES,CHIP | | 1.2K | 0.50% | | R32 | | 1-218-978-11 | | . 120K | 0.50% | 1/16W |
| R3220 | 1-208-715-1 | | | 22K | 0.50% | | R32 | | 1-208-939-11 | | 150K 47K | 0.50% 0.50% | 1/16W 1/16W |
| R3221 | | | | 22K | 5% 5% | 1/16W 1/16W | R32 R32 | | 1-208-927-11 1-208-935-11 | | 100K | 0.50% | 1/16W |
| R3222 | | | | 10K | 5% | | | | | | | | |
| R3223 | | | | 10K | 0.50% | | R32 | | 1-208-719-11 | | 33K | 0.50% 0.50% | 1/16W 1/16W |
| R3224 | | | | 68K | 0.50% | | R32 R32 | | 1-208-943-11 1-208-947-11 | | 220K 330K | 0.50% | 1/16W |
| R3225 | 1-218-970-1 | | | 27K 47K | 5% 5% | 1/16W 1/16W | R32 | | 1-208-947-11 | | 100K | 0.50% | 1/16W |
| R3226 R3227 | | | | 100K | 5% 5% | 1/16W | R32 | | 1-218-977-11 | | 100K | 5% | 1/16W |
| N3421 | 1-210-3//-1 | 1 1160,01111 | | , 0010 | 570 | ., | , ,,,,,, | | . = | , | | | |

| | | | | | | | | | | | Damanda |
|----------------|------------------------------|------------------------------|------------------|--------------|----------------|--------------|------------------------------|---------------------------|--------------------------|----------------|----------------|
| Ref. No. | Part No. | Description | | | <u>Remarks</u> | Ref. No. | <u>Part No.</u> | <u>Description</u> | | | <u>Remarks</u> |
| R3289 | 1-218-977-11 | | 100K | 5% | 1/16W | C131 | | CERAMIC CHIP | 0.1uF | E0/ | 25V 50V |
| R3290 | 1-218-969-11 | | 22K | 5% | 1/16W | C132 C133 | | CERAMIC CHIP | 27pF 0.001uF | 5% 10% | 50V 50V |
| R3291 | 1-218-989-11 1-218-977-11 | | 1M 100K | 5% 5% | 1/16W 1/16W | 6133 | 1-102-304-11 | OLITAWIO OTTI | 0.00141 | 1070 | |
| R3292 R3293 | 1-218-981-11 | | 220K | 5% | 1/16W | | | < CONNECTOR > | • | | |
| NOZOO | 1 210 001 11 | 1,20,01111 | | | | | | | | | |
| R3294 | 1-208-943-11 | | 220K | 0.50% | 1/16W | CN101 | 1-691-591-11 | PIN, CONNECTO | R (1.5MM) | (SMD)8P | |
| R3295 | 1-218-978-11 | , | 120K | 0.50% | 1/16W | CN102 | 1-568-006-11 | CONNECTOR, XI | K ITPE 3P | (IVIIG IIV) | |
| R3296 | 1-208-941-11 1-218-990-11 | • | 180K | 0.50% | 1/16W | | | < DIODE > | | | |
| R3297 R3298 | 1-208-943-11 | | 220K | 0.50% | 1/16W | | | | | | |
| 110200 | 1 200 0 10 11 | | | | | D101 | 8-719-056-89 | DIODE MA8120 | | | |
| R3299 | 1-218-990-11 | | | 5 0/ | 4 (4 0) (1 | D102 | 8-719-056-89 | DIODE MA8120 | | | |
| R3300 | 1-218-965-11 | | 10K | 5% | 1/16W | D103 D104 | 8-719-060-48 8-719-060-48 | DIODE RB751\ | | | |
| R3301 R3302 | 1-218-990-11 1-218-953-11 | 3113111 | 1K | 5% | 1/16W | D104 | 8-719-060-48 | DIODE RB751\ | | | |
| R3303 | 1-218-953-11 | , . | 1K | 5% | 1/16W | , | | | | | |
| ,,,, | | | | | | D106 | 8-719-060-48 | DIODE RB751\ | | | |
| | | < TRANSFORMER | > | | | D107 D108 | 8-719-420-14 8-719-420-14 | DIODE MA808 | | | |
| T3200 | 1-433-417-21 | TRANSFORMER, D | OC-DC COM | VERTER | | D100 | 8-719-056-89 | DIODE MA812 | | | |
| T3200 | 1-429-565-21 | TRANSFORMER, C | | | | D110 | 8-719-056-89 | DIODE MA812 | 0-TX | | |
| | , ,20 000 | | | | | | | 10 | | | |
| | | < VIBRATOR > | | | | | | < 1C > | | | |
| X1600 | 1-767-399-11 | VIBRATOR, CRYST | TAL (24.57) | 6 MHz) | | IC101 | 8-759-478-03 | IC RN5RL50A | A-TL · | | |
| X1000 X2200 | 1-767-450-11 | | | | | IC102 | 8-759-111-56 | IC uPC4572G2 | | | |
| X2201 | 1-760-458-21 | VIBRATOR, CRYS | TAL (32.76 | 8MHz) | | IC103 | 8-759-111 - 56 | IC uPC4572G2 | ?-E2 | | |
| X2400 | 1-760-655-41 | VIBRATOR, CRYS | TAL (20MH | z) | | | | < COIL > | | | |
| | | | | | | | | C 001E > | | | |
| | A-7073-738-A | XL-2 BOARD, CON | IPLETE | | | L101 | 1-414-398-11 | INDUCTOR 10 | | | |
| | | ********* | ***** | | | L102 | 1-414-398-11 | | | | |
| | | | (R | ef.No.:9,0 | 000 Series) | L103 L104 | 1-414-398-11 1-414-854-11 | INDUCTOR 10: INDUCTOR 10: | | | |
| | | < CAPACITOR > | | | | L104 | 1-414-054-11 | INDUSTRICE TO | 411 | | |
| | | CONTROTTORY | | | | | | < IC LINK > | | | |
| C101 | 1-113-985-11 | | 10uF | 20% | 20V | | | FLIGE (OMB)/O | 0.4.\ | | |
| C102 | 1-164-156-11 | | 0.1uF | | 25V | △ PS101 | 1-533-771-21 | FUSE (SMD)(0. | 8A) | | |
| C103 | | CERAMIC CHIP TANTAL. CHIP | 0.1uF 10uF | 20% | 25V 10V | | | < TRANSISTOR | \> - | | |
| C104 C105 | 1-104-851-11 1-126-603-11 | | 4.7uF | 20% | 35V | | | | | | |
| 0100 | 1 120 000 11 | | | | | Q101 | | TRANSISTOR | | | |
| C106 | 1-126-603-11 | | 4.7uF | 20% | 35V | Q102 | 8-729-117-32 | TRANSISTOR | 2SC4177-1 | ILbLb | |
| C107 | 1-164-156-11 | | 0.1uF 0.001uF | 10% | 25V 50V | | | < RESISTOR > | | | |
| C108 C109 | 1-162-964-11 1-162-964-11 | | 0.001uF | 10% | 50V | | | (1,20,0,70,17) | | | |
| C1103 | 1-135-181-21 | | | 20% | 6.3V | R101 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/16W |
| 0 | | | | | | R102 | 1-216-809-11 | | 100 | 5% | 1/16W 1/16W |
| C111 | 1-135-259-11 | | 10uF | 20% 20% | 6.3V 6.3V | R103 | 1-216-845-11 1-216-083-00 | | 100K 27K | 5% 5% | 1/10W |
| C112 | 1-135-181-21 1-135-181-21 | | 4.7uF 4.7uF | 20% | 6.3V | R105 | 1-218-863-11 | | 4.7K | 0.50% | |
| C113 C114 | 1-164-156-11 | | 0.1uF | | 25V | | | • | | | |
| C115 | 1-162-915-11 | | 10PF | 0.5PF | 50V | R106 | 1-218-863-11 | | 4.7K | 0.50% | |
| | | 070 4440 0140 | 40DE | 0.505 | 50V | R107 R108 | 1-218-863-11 1-218-863-11 | | 4.7K 4.7K | 0.50% 0.50% | |
| C116 | 1-162-915-11 1-126-603-11 | | 10PF 4.7uF | 0.5PF 20% | 35V | R109 | 1-218-887-11 | | 47K | 0.50% | |
| C117 C118 | 1-126-603-11 | | 4.7uF | 20% | 35V | R110 | 1-218-885-11 | - | 39K | 0.50% | 1/16W |
| C119 | 1-126-603-11 | | 4.7uF | 20% | 35V | | | | | 0.500/ | 4 13 01 11 |
| C120 | 1-126-603-11 | ELECT CHIP | 4.7uF | 20% | 35V | R111 | 1-218-847-11 | | 1K 120 | 0.50% 0.50% | |
| 0101 | 1 160 064 11 | CERAMIC CHIE | 0.001uF | 10% | 50V | R112 R113 | 1-218-825-11 1-218-866-11 | • | 120K | 0.50% | |
| C121 C122 | 1-162-964-11 1-162-964-11 | | 0.001uF | 10% | 50V 50V | R114 | 1-218-863-11 | • | 4.7K | 0.50% | 1/16W |
| C123 | 1-162-964-11 | | 0.001uF | 10% | 50V | R115 | 1-218-863-11 | | 4.7K | 0.50% | 1/16W |
| C124 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | | | | | | |
| C125 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | | | | | • | |
| C126 | 1-162-964-1 | CERAMIC CHIP | 0.001uF | 10% | 50V | | | | | | |
| C126 | 1-162-964-1 | | 0.001uF | 10% | 50V | | Note: | | Note : | | 1 |
| C128 | 1-162-964-1 | CERAMIC CHIP | 0.001uF | 10% | 50V | | Note: The component | ts identified by | Les compo | | |
| C129 | 1-162-964-1 | | 0.001uF | 10% | 50V | | mark ∆ or dotte | d line with mark | une marqu pour la séc | | t critiques |
| C130 | 1-162-964-1 | I CERAMIC CHIP | 0.001uF | 10% | 50V | 1 | | | Ne les rem | placer qu | |
| | | | | | . 6 | -35 | specified. | | pièce porta | nt le numéi | ro spécifié. |
| | | | | | | , | | | | | |

XL-2

| Ref. No. | Part No. | Description | | | Remarks | ļ |
|--------------------------------------|--|--|--------------------------------------|----------------------------|---|---|
| R116 R117 R118 R119 R120 | 1-216-845-11 1-216-845-11 1-216-829-11 1-220-300-91 1-220-300-91 | METAL CHIP METAL CHIP METAL CHIP RES,CHIP RES,CHIP | 100K 100K 4.7K 6.8K 6.8K | 5% 5% 5% 5% 5% | 1/16W 1/16W 1/16W 1/2W 1/2W | |
| R121 R122 R123 | 1-218-855-11 1-216-841-11 1-216-296-91 | RES,CHIP METAL CHIP SHORT 0 | 2.2K 47K | 0.50% 5% | 1/16W 1/16W | |
| | | < SWITCH > | | | | İ |
| S101 S102 | 1-570-711-11 1-570-711-11 | SWITCH, SLIDE SWITCH, SLIDE | | | | |
| | | MISCELLANEOUS | 3 | | | |
| 53 | 1-670-982-11 | FP-14 FLEXIBLE I | BOARD | | | |

| | | MISCELLANEOUS ************** |
|-----------------------------------|--|---|
| 53 61 62 103 107 | 1-670-982-11 1-670-976-21 1-670-980-11 1-670-979-11 1-670-990-21 | FP-14 FLEXIBLE BOARD FP-8 FLEXIBLE BOARD FP-12 FLEXIBLE BOARD FP-11 FLEXIBLE BOARD FP-23 FLEXIBLE BOARD |
| 116 119 152 157 160 | 1-475-949-21 1-774-867-31 1-670-981-21 1-670-977-21 1-505-619-11 | SWITCH BLOCK, CONTROL(FK-4880) CONNECTOR,EXTERNAL(HOT SHOE)8P FP-13 FLEXIBLE BOARD FP-9 FLEXIBLE BOARD SPEAKER (2.0 CM) |
| 203 217 218 △ 221 222 | 1-670-983-21 1-958-983-11 1-958-984-11 1-517-754-21 1-803-274-21 | FP-16 FLEXIBLE BOARD HARNESS (CP-81) HARNESS (CP-82) TUBE, FLUORESCENT, COLD CATHODE MODULE, CRYSTAL INDICATION |
| 224 252 261 263 303 | 1-670-986-21 1-694-411-11 1-785-247-11 1-670-985-21 1-670-984-11 | FP-19 FLEXIBLE BOARD TERMINAL BOARD, BATTERY CONNECTOR, DC-IN FP-18 FLEXIBLE BOARD FP-17 FLEXIBLE BOARD |
| 310 318 352 355 402 | 1-670-987-21 1-670-978-11 1-670-987-21 8-753-023-51 1-418-014-11 | FP-20 FLEXIBLE BOARD FP-10 FLEXIBLE BOARD FP-20 FLEXIBLE BOARD LCX027AK-1 MICROPHONE UNIT |
| 423 425 426 | 1-670-991-11 1-670-989-21 1-670-988-21 | FP-37 FLEXIBLE BOARD FP-22 FLEXIBLE BOARD FP-21 FLEXIBLE BOARD (Including S700, S701, S702) |
| 453 460 | 1-758-174-11 A-7093-999-A | LENS, ZOOM (VCL-4312VA) PRISM ASSY (PD100) (Including three CCD imagers) |
| 460 | A-7030-948-A | PRISM ASSY (PD100P) (Including three CCD imagers) Computer |

| Ref. No. | Part No. | Description | <u>Remarks</u> |
|-------------|--------------|--------------------------------|----------------|
| 502 | 1-959-236-11 | HARNESS (XL-51) | |
| 516 | 1-774-868-11 | PLUG, CONNECTOR 8P | |
| CN901 | 1-784-723-11 | PIN, CONNECTOR 4P | |
| D901 | 8-719-067-13 | DIODE GL453K | |
| H901 | 8-719-061-28 | DIODE HW-105C-FT-V (T REEL SEN | ISOR) |
| H902 | 8-719-061-28 | DIODE HW-105C-FT-V (S REEL SEI | |
| M901 | A-7048-889-A | DRUM ASSY (DEH-14B-R) | , |
| M902 | 8-835-606-01 | MOTOR, DC SCD15A/C-NP (CAPST | AN) |
| M903 | X-3948-346-1 | MOTOR ASSY, L (LOADING) | |
| PH700 | 8-749-014-54 | HIC CNA1312K01S0 | |
| PH701 | 8-749-014-54 | HIC CNA1312K01S0 | |
| Q901 | 8-729-907-25 | PHOTO TRANSISTOR PT4850F (TA | PE END) |
| Q902 | 8-729-907-25 | PHOTO TRANSISTOR PT4850F (TA | |
| S700 | 1-771-487-21 | SWITCH, SLIDE | |
| S701 | 1-762-851-21 | SWITCH, TACT | |
| S702 | 1-762-851-21 | SWITCH, TACT | |
| S901 | 1-771-039-51 | SWITCH, PUSH (C IN SW) | |
| S902 | 1-572-719-32 | SWITCH, PUSH (1 KEY)(REC PROC |)F) |
| S903 | 1-771-325-11 | ENCODER, ROTARY (SWITCH)(MO | DE) |
| 7. T. T. V. | | | |

ACCESSORIES ******

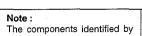
| \triangle | 1 - 475-599-11 | ADAPTOR, AC (AC-L10A) |
|-------------|-----------------------|--|
| | 1-543-798-11 | FILTER, CLAMP (FERRITE CORE) |
| \triangle | 1-690-827-11 | CORD SET, POWER (PD100P) |
| | 1-475-950-21 | REMOTE COMMANDER (RMT-811) |
| | 1-765-080-11 | CORD, CONNECTION (A/V)(1.5m) |
| ⚠ | 1-775-549-21 | CORD, POWER (PD100) |
| Fig A | 1-959-249-11 | CORD, CONNECTION |
| | | (FOR KEYBOARD, WITH ADAPTOR) |
| Fig B | 1-959-250-11 | PC CARD/PARALLEL PORT ADAPTOR |
| . • | | (MSAC-PR1) |
| | 3-052-849-01 | LID, HOOD (FOR WIDE CONVERSION LENS) |
| | 3-053-100-01 | CD-ROM, INSTALL |
| | 3-053-549-01 | CAP, WIDE CONVERSION (58.5 Ø) |
| | 3-053-550-01 | CAP, WIDE CONVERSION (85 Ø) |
| | 3-865-078-11 | MANUAL, INSTRUCTION (ENGLISH) |
| • | | (PD100/PD100P) |
| | 3-865-078-21 | MANUAL, INSTRUCTION (FRENCH) |
| | | (PD100/PD100P) |
| | 3-865-078-31 | MANUAL, INSTRUCTION (GERMAN)(PD100) |
| | 3-865-078-41 | MANUAL, INSTRUCTION (ITALIAN)(PD100P) |
| | 3-865-272-11 | MANUAL, INSTRUCTION (CD-ROM INSTALL) (ENGLISH) |
| | | (, |

A-7094-002-A PC CARD ADAPTOR (MSAC-PC1) (WITH CASE) A-7094-044-A XLR BLOCK ASSY X-3948-941-1 CAP ASSY, LENS X-3949-154-1 HOOD ASSY, LENS

3-970-278-01 POUCH

3-987-015-01 BELT (S), SHOULDER 3-052-859-01 WIDE CONVERSION

A-7093-731-A NP-F330 BATTERY PACK (PD100) A-7093-732-A NP-F330 BATTERY PACK (PD100P)



mark Δ or dotted line with mark △ are critical for safety.

Replace only with part number specified.

Note: Les composants identifiés par une marque \(\Delta \) sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

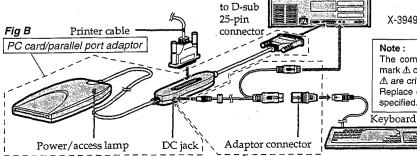


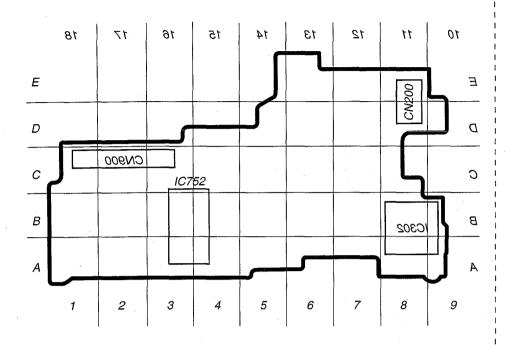
Fig A Power cord (With adaptor connector)-

6-36E

(PARTS REFERENCE SHEET)

You can find the parts position of location of mount locations applying to VC-208 board of a set.

VC-208 DSR-PD100/PD100P SIDE A

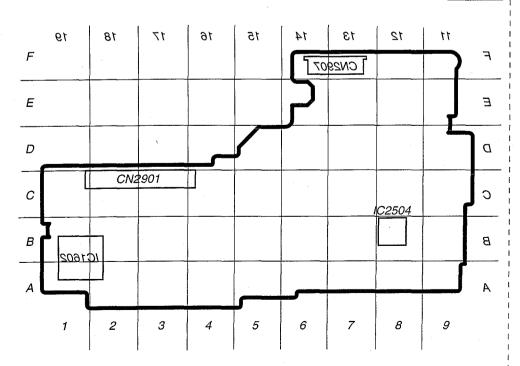


SIDE B DSR-PD100/PD100P VC-208

(PARTS REFERENCE SHEET)

You can find the parts position of location of mount locations applying to VI-151 board of a set.

VI-151 DSR-PD100/PD100P SIDE A



SIDE B DSR-PD100/PD100P VI-151

X

DSR-PD100/PD100P

SONY

SERVICE MANUAL

US Model Canadian Model DSR-PD1000 AEP Model DSR-PD100P

SUPPLEMENT-1

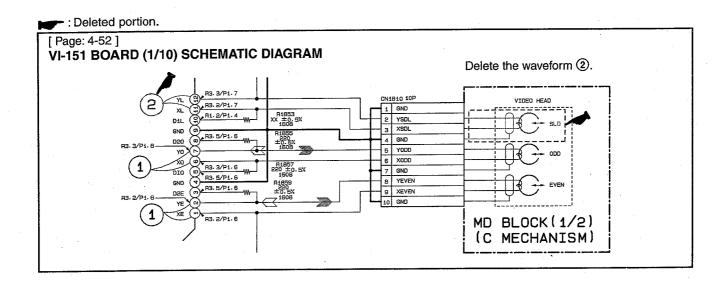
File this supplement-1 with the Service Manual. (EVB00374, EVB00850, EVB01385)

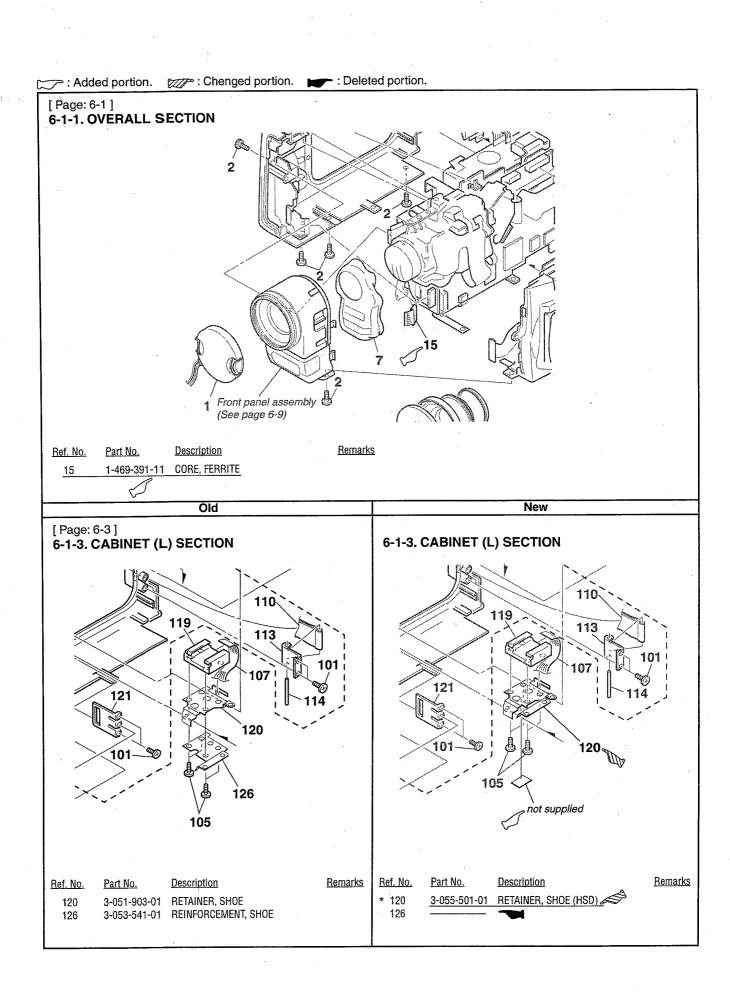
- The video head (SLD) circuit should be deleted from the schematic diagram...... (page 1)
- Several parts are added and changed...... (pages 2 to 4)
- The DC IN circuit is separated from the VI-151 board. A new independent printed wiring board PS-422 is newly added solely for the DC IN board......(pages 5 to 18)

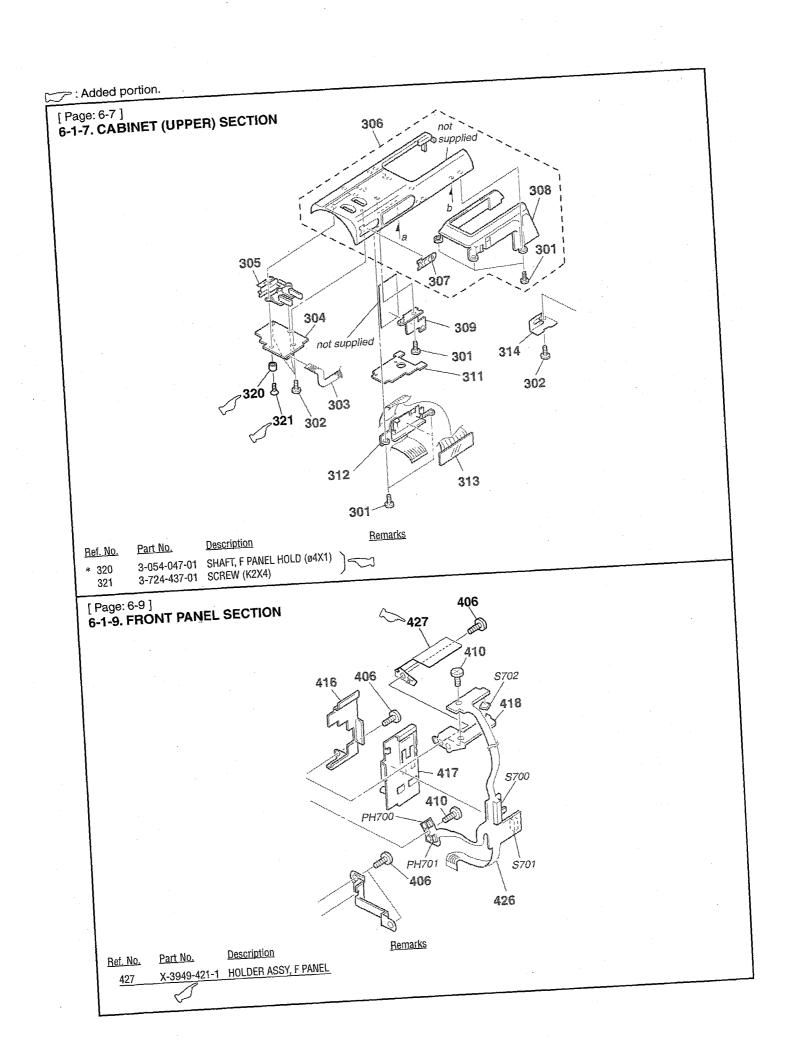
Applicable serial Nos.

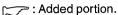
| Models | Serial Nos. |
|------------|--------------------|
| DSR-PD100 | 1000701 and higher |
| DSR-PD100P | undecided |

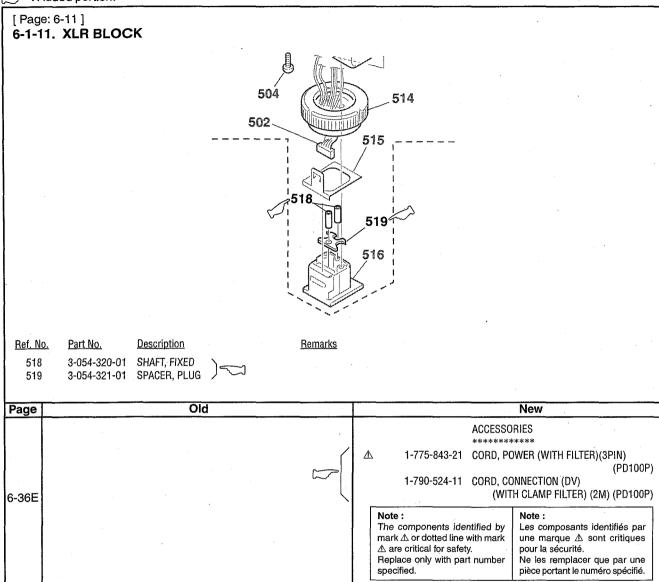
- Part number change of IC1602 on the VI-151 board.
 IC1602 : CXD3200R-T6 → SN104266PN-TEB
-(pages 19 and 20)
- Addition of MF ring assy(page 21)
- · Add and correct your service manual.



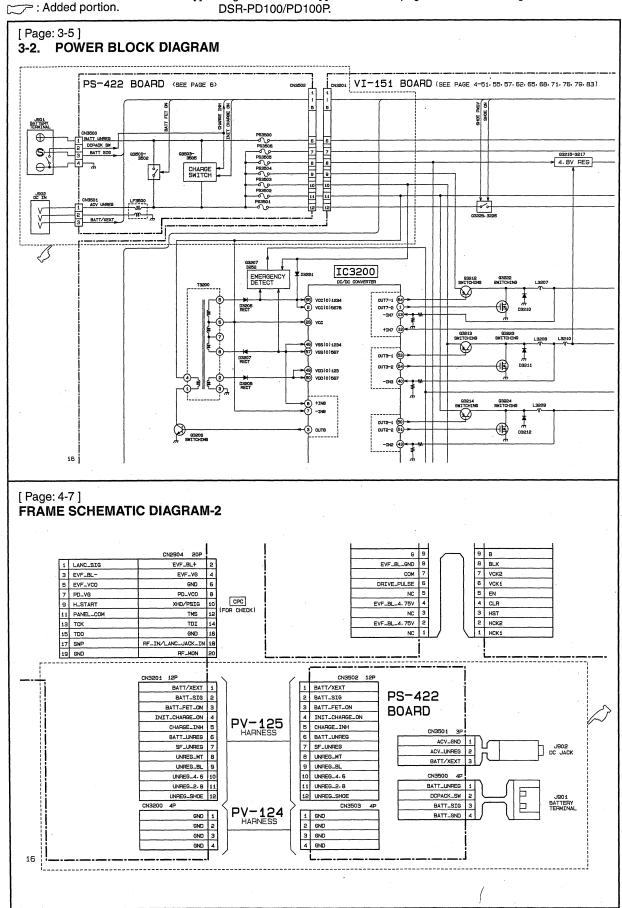


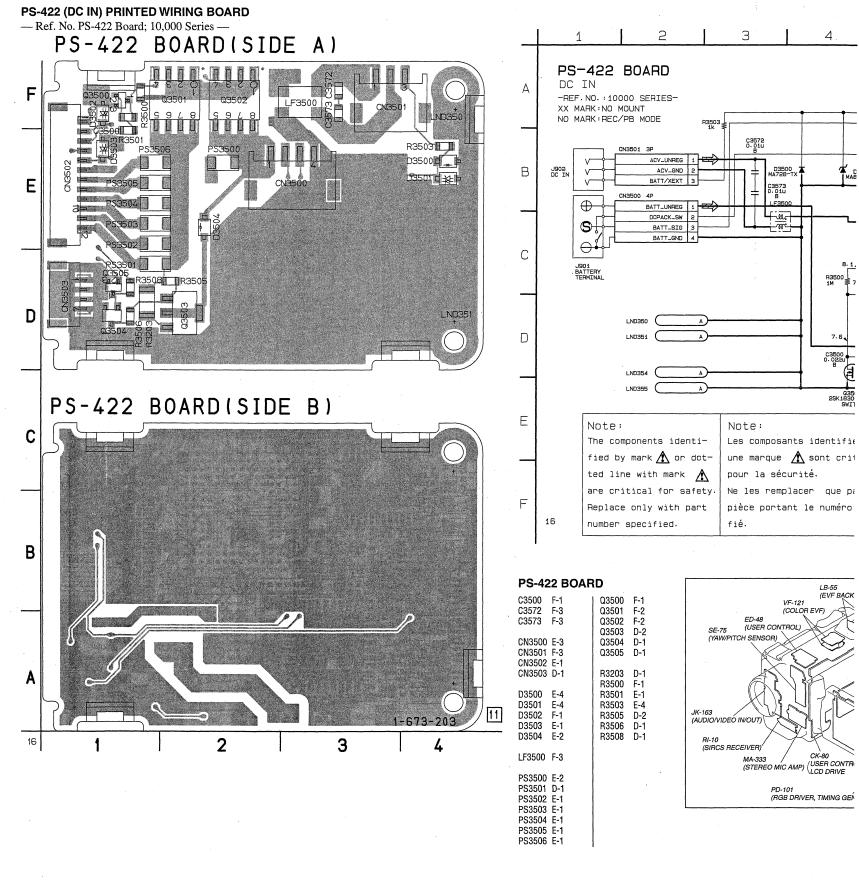




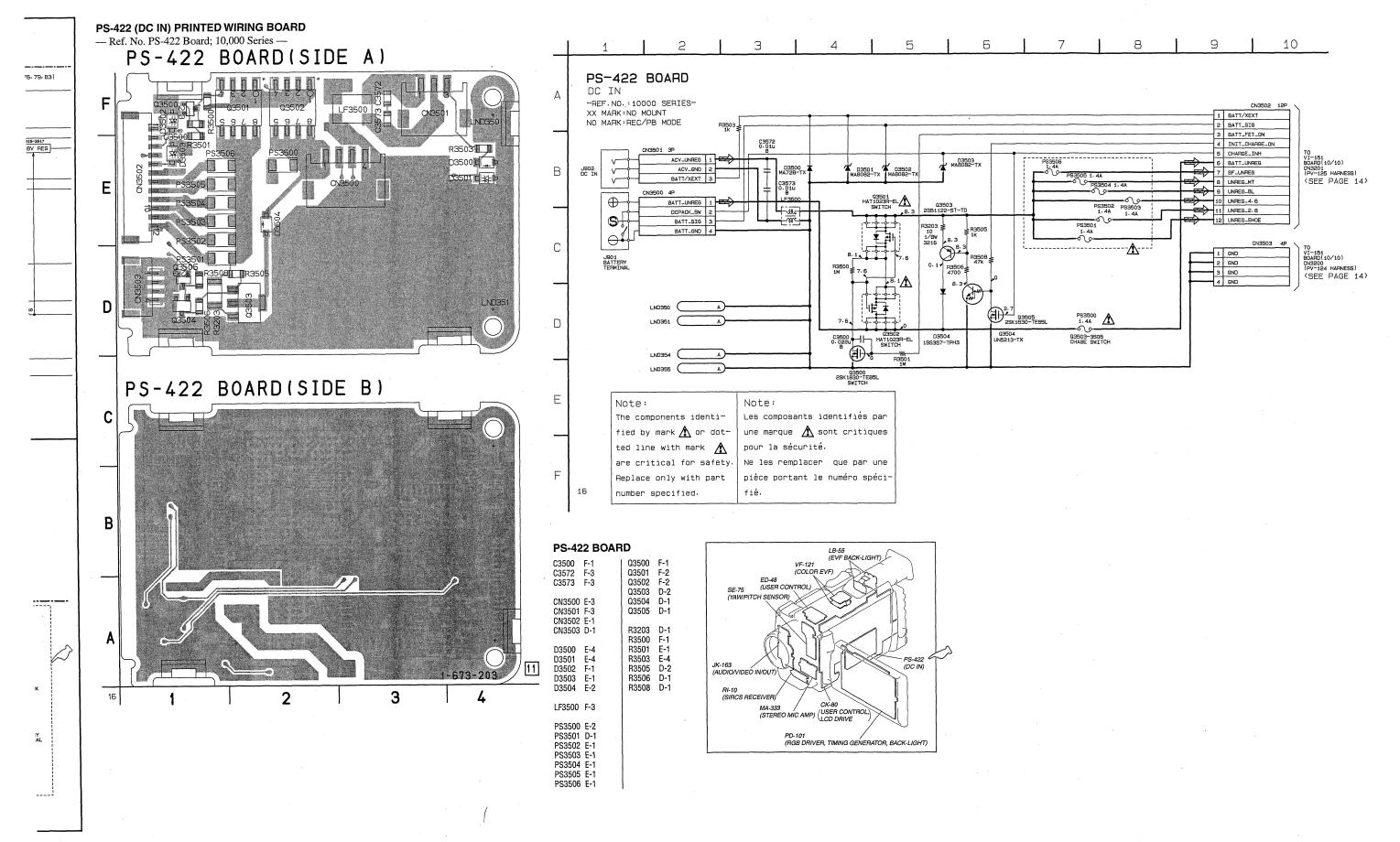


- <>: Page No. shown in <> indicates the page to refer on this Supplement-1.
- []: Page No. shown in [] indicates the page to refer on the original Service Manual DSR-PD100/PD100P.





nt-1. vice Manual



[]: Page No. shown in [] indicates the page to refer on the original Service Manual DSR-PD100/PD100P.

[Page: 4-90] PRINTED WIRING BOARD

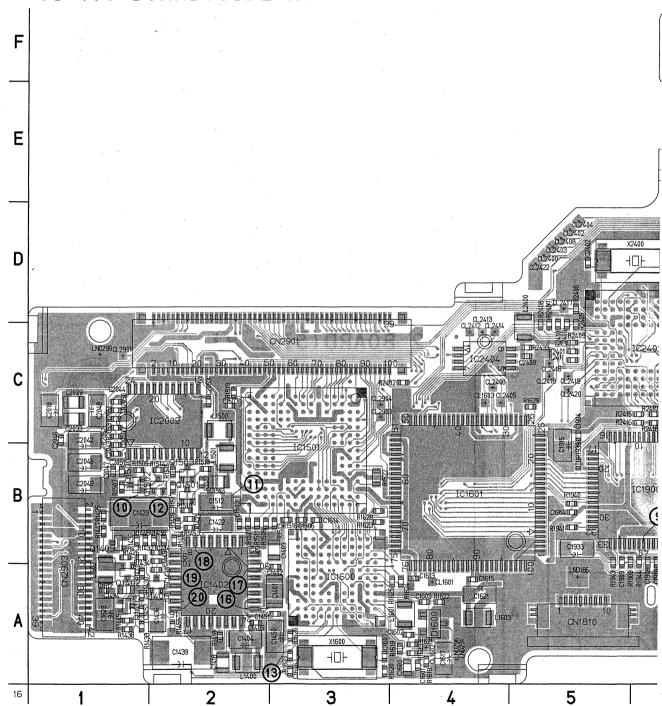
VI-151 BOARD (SIDE A)

| VI-15 | 1 BOAL | AD (SIDE A) | | | | |
|--|--|--|--|--|--|----------------------------|
| C1401 C1402 C1404 C1405 C1409 C1418 C1422 C1423 C1423 C1423 | A-3 A-2 A-2 B-3 A-2 B-2 B-1 A-2 | C3205 E-9 C3221 C-7 C3236 E-8 C3237 C-7 C3244 C-7 C3245 E-7 C3246 E-7 C3248 E-8 C3249 E-8 C3255 E-9 | 03227 E- 03231 E- 03234 C- 03235 E- 03236 D- 03238 E- 03239 D- 03240 D- 03241 D- | -9 -7 -7 -7 -7 -7 -7 | R2421 R2422 R2423 R2424 R2425 R2426 R2427 R2428 R2429 R2430 | C C C D C D |
| C1423 C1433 | B-1 A-2 | C3248 E-8 C3249 E-8 | Q3240 D- | 77 22221111211111111222121212232232223443443443456555666611111545555556666 | R2428 R2429 | C-I |
| C2588 C2589 | B-8 B-7 | Q3225 C-7 Q3226 C-7 | R2419 C- R2420 C- | | | |

VI-151 (REC/PB AMP, TIMING GENERATOR, VIDEO INTERFACE, DCT/IDCT, IR TRANSMITTER, AUDIO PROCESSOR, HI CONTROL, MECHANISM CONTROL, DRUM/CAPSTAN MOTOR DRIVE, DC/DC CONVERTER) PRINTED WIRII

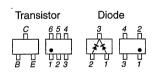
— Ref. No. VI-151 Board; 10,000 Series —

VI-151 BOARD(SIDE A)

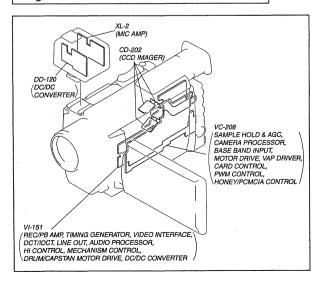


For printed wiring boards

- This board is six-layer print board. However, the patterns of layers two to five have not been included in the diagram.
- Chip parts



There are few cases that the part printed on this diagram isn't mounted in this model.

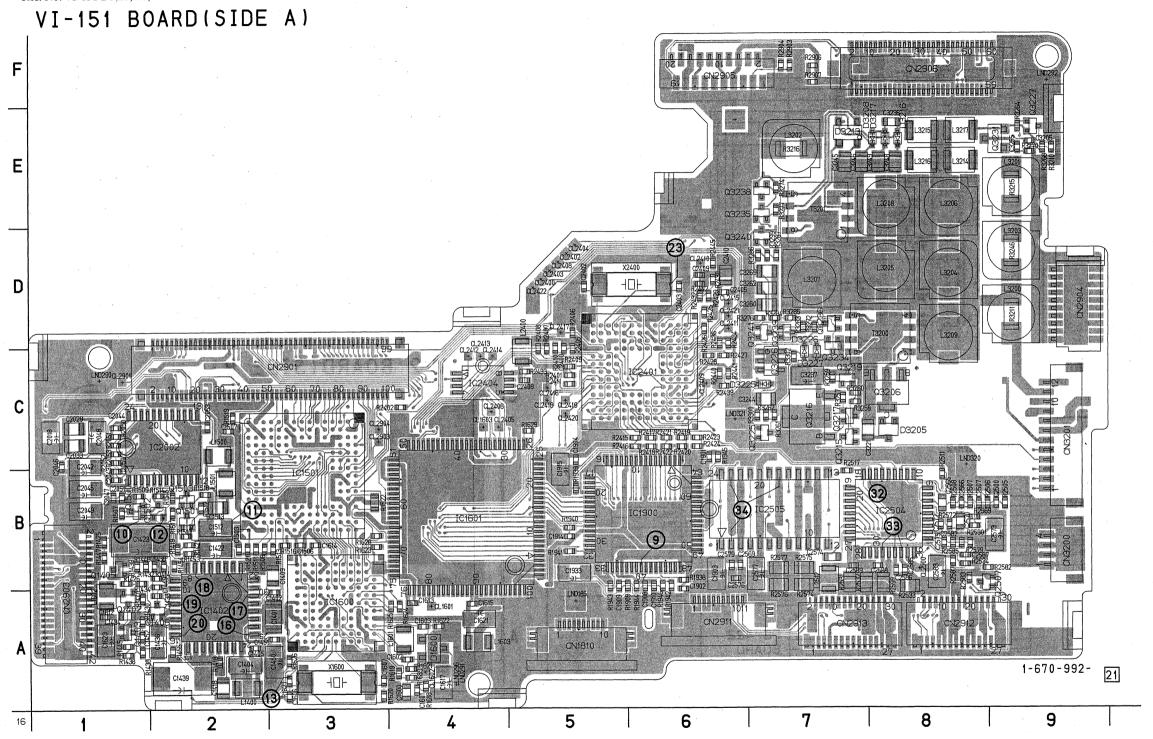


DARD (SIDE A)

R2421 C-6 R2422 C-6 R2423 C-6 R2424 C-6 R2425 D-6 R2426 D-6 Q3227 Q3231 Q3234 E-9 E-9 C-7 C3205 C3221 C-7 C3236 E-8 C3237 C-7 C3244 C-7 C3245 E-7 C3246 E-7 Q3235 Q3236 D-7 Q3238 E-7 Q3239 D-7 R2427 C-6 R2428 C-6 R2429 D-6 R2430 D-6 Q3240 D-7 Q3241 D-7 C3248 C3249 E-8 C3255 E-9 C3260 D-7 C3262 D-7 R1414 B-2 R2432 R1414 B-2 R1418 A-2 R1419 B-2 R1421 B-2 R1425 B-1 R2433 C-5 R2434 D-6 R2436 D-6 C3269 D-7 R2439 C-6 CN1810 A-5 R2440 C-6 R2441 C-6 R2442 D-6 R2445 D-6 CN2901 C-2 R1426 CN2903 A-R1430 R1432 B-2 R1433 A-1 CN2904 D-9 CN2905 F-6 CN2906 F-8 R2505 B-9
R2506 B-8
R2507 B-8
R2508 B-8
R2517 B-7
R2530 B-8
R2531 A-7
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R2572 B-8
R2572 B-7
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R2587 B-8 R1434 B-1 R1438 A-1 R1439 B-1 R1440 A-1 CN2911 A-6 CN2912 A-8 CN2913 A-7 CN3200 B-9 R1445 A-CN3201 C-9 R1446 R1447 B-1 R1453 B-2 D1600 A-4 D3205 C-8 D3208 E-7 R1454 B-2 R1454 B-2 R1455 A-2 R1507 B-1 R1508 B-2 R1509 B-1 D3213 E-7 D3216 E-8 D3217 E-8 D3225 C-7 R1510 B-2 R1511 B-2 R1512 B-2 D3226 C-7 D3227 C-7 R1513 B-3 IC1402 A-2 IC1501 B-3 IC1600 A-3 IC1601 B-4 IC1900 B-6 R1515 B-2 R1516 B-3 R1517 B-2 IC2002 C-2 IC2401 C-6 IC2404 C-4 IC2504 B-8 R1519 C-2 R1521 B-2 R1522 B-3 R2903 F-7 R2904 F-7 R2906 F-7 R2907 F-7 R3210 E-9 R3211 D-9 R1618 A-4 R1619 A-4 R1620 A-3 R1621 A-4 IC2505 B-7 L1400 A-2 L1500 C-2 L1501 B-2 R3215 E-9 R3216 E-7 R3246 D-9 R1622 A-4 R1622 A-4 R1623 B-3 R1624 A-4 R1625 A-4 R1626 A-3 L1601 L1602 L1603 L2400 L2512 L3200 L3201 L3202 L3203 L3204 L3205 L3206 L3207 L3208 L3209 L3214 L3215 L3215 L3215 R3257 C-7 R3258 C-7 R3259 C-7 R3260 C-7 R3261 C-7 R1627 A-3 R1628 B-3 R1629 C-5 R3261 C-7
R3262 C-7
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R3300 C-7 D-9 E-9 E-7 R1689 A-4 R1909 A-5 R1938 B-6 R1939 B-5 D-9 D-8 D-8 E-8 D-7 E-8 D-8 E-8 E-8 R1940 B-5 R1940 B-5 R1941 B-5 R1942 A-6 R1943 A-5 R1944 A-6 R1945 C-6 R1946 A-6 R2050 C-1 R2051 C-1 R2051 C-1
R2052 C-1
R2052 C-1
R2401 C-5
R2402 C-4
R2405 C-5
R2406 D-5
R2408 C-5
R2409 C-5
R2401 C-5
R2411 C-5
R2411 C-6
R2416 C-6
R2416 C-6 Q1402 Q1402 A-1
Q1403 A-1
Q1405 B-1
Q1406 A-2
Q1500 B-1
Q1501 B-2
Q1502 B-2
Q2507 B-8
Q3206 C-8
Q3215 C-7
Q3217 C-7
Q3219 C-7
Q3225 C-7
Q3226 C-7 T3200 D-8 T3201 E-7 X1600 A-3 X2400 D-6 R2417 C-6 R2418 C-6 R2419 C-6 R2420 C-6

VI-151 (REC/PB AMP, TIMING GENERATOR, VIDEO INTERFACE, DCT/IDCT, IR TRANSMITTER, AUDIO PROCESSOR, HI CONTROL, MECHANISM CONTROL, DRUM/CAPSTAN MOTOR DRIVE, DC/DC CONVERTER) PRINTED WIRING BOARD

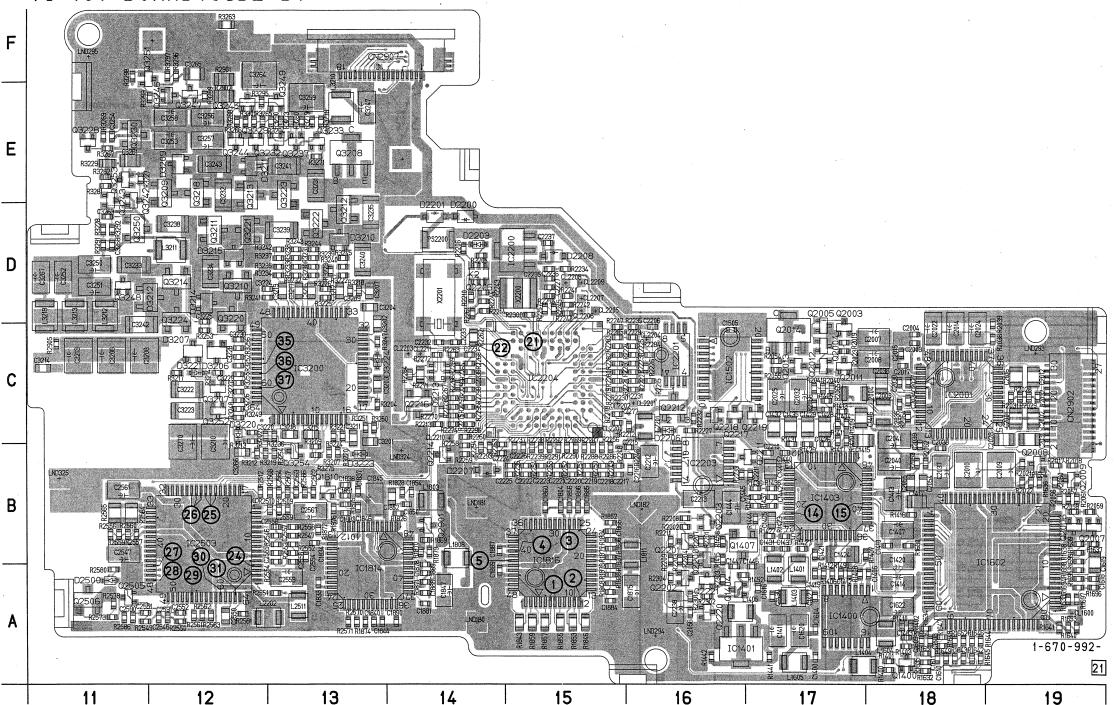
- Ref. No. VI-151 Board; 10,000 Series -



VI-151 (REC/PB AMP, TIMING GENERATOR, VIDEO INTERFACE, DCT/IDCT, IR TRANSMITTER, AUDIO PROCESSOR, HI CONTROL, MECHANISM CONTROL, DRUM/CAPSTAN MOTOR DRIVE, DC/DC CONVERTER) PRINTED WIRING BOARD

- Ref. No. VI-151 Board; 10,000 Series -

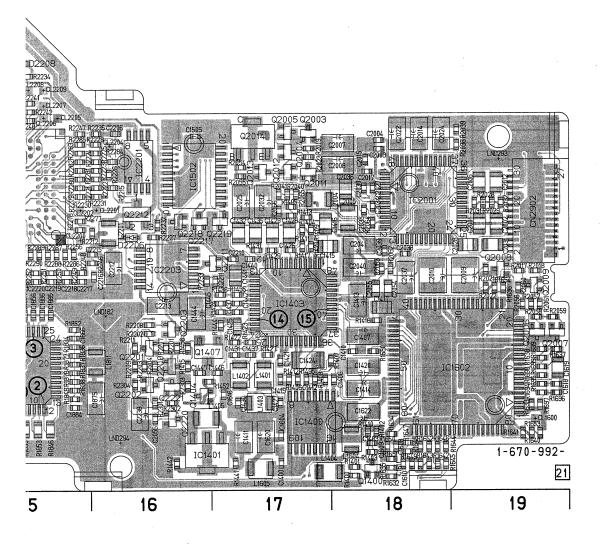
VI-151 BOARD(SIDE B)



VI-151 BOARD (SIDE B)

| 1400 | A-17 | C2016 C-19 | C3220 C-12 | L1605 A-17 | l R140 |
|--------------|--------------|--------------------------|----------------------------|--------------------------|--------------|
| 1403 | A-18 | C2017 C-18 | C3222 C-12 | L1803 B-14 | R140 |
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| 1411 | A-17 | C2027 C-18 | C3226 C-12 | L2005 C-18 | R140 |
| 1412 1413 | A-17 B-18 | C2028 C-19 C2030 C-18 | C3227 C-12 C3228 C-12 | L2201 C-16 L2202 A-13 | R140 R140 |
| 1414 | A-18 | C2031 C-19 | C3229 C-12 | L2511 A-13 | R140 |
| 1415 | C-17 | C2032 C-17 | C3230 C-12 | L3210 E-13 | R140 |
| 1416 1417 | C-17 B-18 | C2034 C-18 C2035 C-18 | C3231 E-13 C3232 E-12 | L3211 D-12 L3212 D-11 | R141 R141 |
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| 1420 | B-18 | C2037 B-18 | C3234 D-12 | L3218 D-11 | R141 |
| 1421 1424 | B-17 B-17 | C2038 B-18 C2039 B-18 | C3235 D-13 C3238 D-12 | PS2200 D-14 | R141 |
| 1425 | B-17 | C2040 B-18 | C3239 D-13 | 1 32200 D-14 | R141 |
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| 1441 | B-17 | C2216 B-16 | C3254 E-11 C3256 E-12 | Q2008 B-19 Q2009 B-19 | R144 |
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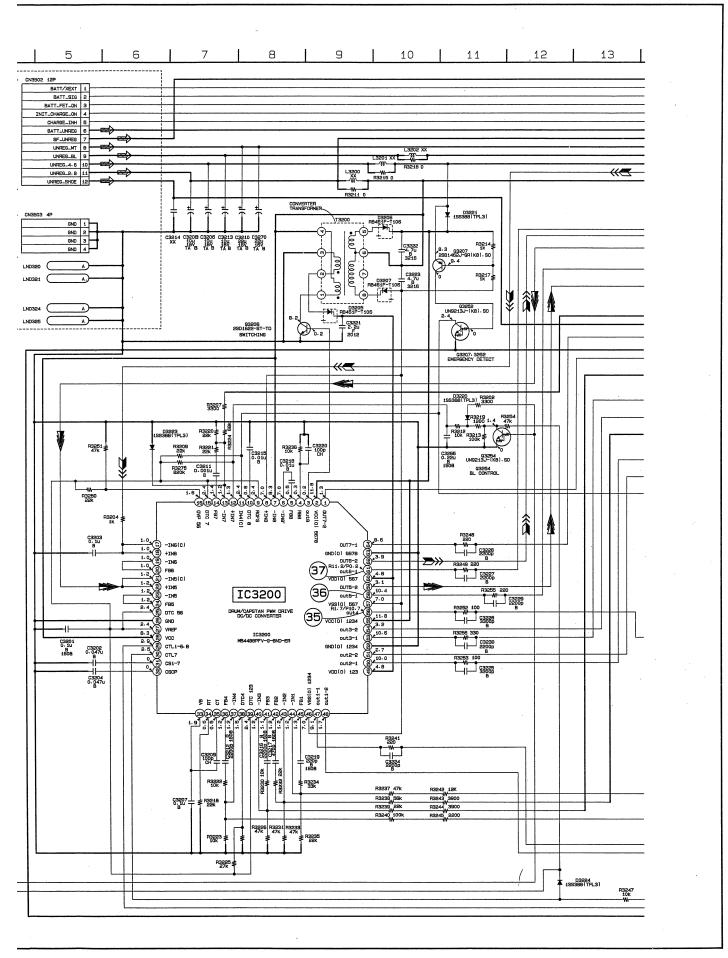
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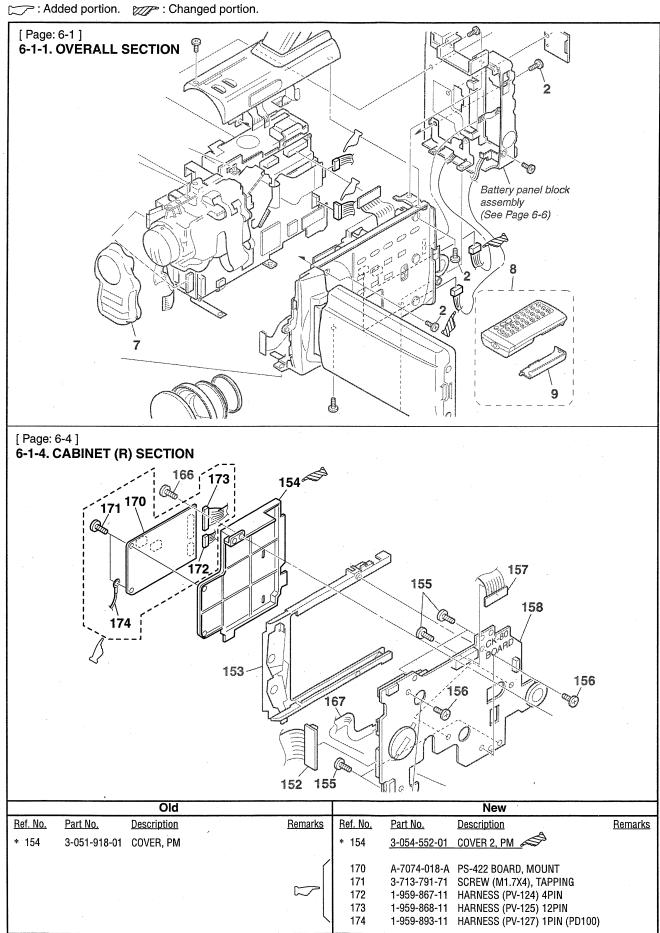
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B-11 Q3259 E-11 Q3259 E-11 Q3250 B-11 Q3251 E-11 Q3251 E-11 Q3252 B-11 Q3253 E-11 Q3254 B-13 Q3254 B-13 | R1400 A-18 R1401 A-18 R1402 A-18 R1403 A-18 R1404 C-17 R1405 C-17 R1406 A-17 R1407 B-18 R1408 A-17 R1409 C-17 R1413 C-17 R1413 C-17 R1413 C-17 R1413 C-17 R1413 B-16 R1414 B-17 R1422 B-17 R1423 B-17 R1424 B-17 R1424 B-17 R1425 B-17 R1426 B-18 R1417 C-17 R1427 B-17 R1428 B-17 R1429 B-17 R1429 B-17 R1429 B-17 R1429 B-17 R1429 B-17 R1420 B-17 R1420 B-17 R1421 B-17 R1421 B-17 R1422 B-17 R1423 B-17 R1424 B-17 R1425 B-17 R1435 B-17 R1436 B-19 R1437 B-19 R1437 B-19 R1438 B-19 R1634 A-18 R1635 A-18 R1636 B-19 R1637 B-19 R1638 B-19 R1639 B-19 R1630 B-18 R1631 A-18 R1636 B-19 R1637 B-19 R1638 B-19 R1639 B-19 R1630 A-18 R1631 A-18 R1644 A-18 R1645 A-18 R1645 A-18 R1646 A-18 R1647 A-18 R1648 B-19 R1659 A-19 R1699 B-19 R1690 A-19 | R1877 B-15 R1878 A-15 R1878 B-14 R2017 B-19 R2018 B-19 R2019 C-17 R2021 B-19 R2022 B-19 R2023 C-17 R2023 C-19 R2031 C-19 R2032 C-19 R2032 C-19 R2032 C-19 R2038 C-19 R2038 C-19 R2038 C-17 R2056 B-19 R2057 B-19 R2056 B-19 R2056 B-19 R2057 B-19 R2058 B-19 R2058 B-19 R2060 B-19 R2060 B-19 R2060 B-19 R2061 B-19 R2061 B-19 R2062 B-16 R2063 B-18 R2064 C-18 R2065 C-17 R2066 C-17 R2066 C-17 R2061 B-19 R2061 B-19 R2062 B-16 R2023 B-16 R2020 B-16 R20203 B-16 R20204 B-16 R20205 D-14 R2010 B-16 R20205 D-14 R2010 D-14 R2011 B-16 R2010 D-14 R2011 B-16 R2010 D-14 R2011 B-16 R2010 D-14 R2011 B-16 R2010 D-14 R2011 B-16 R2010 D-14 R2011 B-16 R2010 D-14 R2011 B-16 R2010 D-14 R2011 B-16 R2010 D-14 R2011 D-15 R2023 C-16 R2023 C-16 R2023 C-16 R2023 C-16 R2023 C-16 R2023 C-16 R2023 C-16 R2023 C-16 R2023 C-16 R2023 C-16 R2023 C-16 R2023 C-16 R2024 D-15 R2024 D-15 R2024 D-15 R2025 B-15 R2026 C-14 R206 C-14 | R2262 C-14 R2263 C-14 R2263 C-14 R2265 C-14 R2266 C-14 R2266 C-14 R2267 C-14 R2269 C-14 R2270 C-14 R2271 C-14 R2271 C-14 R2272 C-14 R2273 C-14 R2273 C-14 R2275 C-15 R2277 C-15 R2278 C-15 R2278 C-15 R2281 C-15 R2282 C-15 R2282 C-15 R2283 C-15 R2283 C-15 R2284 C-16 R2285 C-15 R2288 B-15 R2288 B-15 R2289 B-15 R2280 B-15 R2280 B-15 R2280 B-15 R2281 B-15 R2281 B-15 R2282 C-16 R2285 C-16 R2285 C-16 R2285 B-17 R2286 B-17 R2288 B-18 R2290 B-15 R2290 B-15 R2290 B-15 R2291 B-15 R2291 B-15 R2291 B-15 R2291 B-15 R2292 B-15 R2293 B-14 R2290 C-14 R2290 C-14 R2290 C-14 R2290 C-14 R2291 B-15 R2291 B-15 R2291 B-15 R2291 B-15 R2291 B-15 R2291 B-15 R2291 B-15 R2291 B-15 R2291 B-15 R2291 B-15 R2291 B-15 R2290 B-15 R2291 B-15 R2290 B-11 R2296 C-14 R2296 C-14 R2297 C-14 R2298 C-14 R2298 C-14 R2298 C-14 R2298 C-14 R2298 B-11 R2509 B-11 R2500 B-11 R2501 B-13 R2510 B-13 R2510 B-13 R2551 B-13 R2552 B-11 R2550 A-12 R2561 A-12 R2561 A-12 R2563 A-12 R2563 A-12 R2564 B-13 R2557 B-11 R2558 B-13 R2559 B-11 R2550 B-11 R2550 B-11 R2550 B-11 R2550 A-12 R2561 A-12 R2561 A-12 R2562 B-13 R2570 A-13 R2571 A-11 R2580 A-11 R2580 A-11 R2580 A-11 R2580 B-13 R2570 A-13 R2571 A-11 R2580 A-11 R2580 A-11 R2580 A-11 R2580 A-11 R2580 A-11 R2580 B-13 R2570 A-13 | R3217 C-12 R3218 D-13 R3221 C-13 R3222 D-13 R3224 C-13 R3225 D-13 R3226 D-11 R3229 E-11 R3230 D-13 R3231 D-13 R3241 D-13 R3242 D-13 R3245 D-13 R3245 D-13 R3245 D-13 R3245 D-13 R3245 D-13 R3245 D-13 R3250 C-12 R3250 C-13 R3275 B-13 R3275 B-13 R3275 B-13 R3275 B-13 R3278 E-13 R3278 E-13 R3291 D-11 R3293 E-12 R3290 E-13 R3291 D-11 R3293 E-12 R3290 E-13 R3290 E-13 R3290 E-13 R3290 E-13 R3290 E-13 R3290 E-12 R3290 E-13 R3290 E-12 R3290 E-13 R3290 E-13 R3290 E-14 R3290 E-14 R3290 E-15 R3290 E-12 R3290 E-13 R3290 E-13 R3290 E-14 R3290 E-14 R3290 E-15 R3290 E-15 R3290 E-12 R3290 E-13 R3290 E-13 R3290 E-14 R3290 E-14 R3290 E-15 R3290 E-15 R3290 E-12 R3290 E-13 R3290 E-13 R3290 E-14 R3290 E-14 R3290 E-15 R329 |

<>: Page No. shown in <> indicates the page to refer on this Supplement-1.
[]: Page No. shown in [] indicates the page to refer on the original Service Manual : Changed portion. DSR-PD100/PD100P. [Page: 4-83] SCHEMATIC DIAGRAM 9 10 11 | 12 | 13 | VI-151 BOARD(10/10)
DC/DC CONVERTER(DD BLOCK) -REF. NO. :10000 SERIES-XX MARK: NO MOUNT TO PS-422 BOARD CN3501 (SEE PAGE 7) В ((C C3214 C3208 C3206 C3213 C3210 C3270 XX 10U 10U 10U 25U 22U TA B TA B TA B TA B TA B SEE PAGE 7 D Q3206 2SD1622-ST-TD SWITCHING Q3207-3252 EMERGENCY DETECT H3220 ≢ ₹ R3251 G3254 BL CONTROL •SIGNAL PATH OUT7OUT7OUT7OUT8-REC REC/PB PB Drum servo (speed and phase) Capstan servo (speed and phase) R3249 220 IC3200 W C3229 2200p R3252 100 11 C3228 out3-2 out3-1 GND(0) 1234 out2-2 out2-1 VDD(0) 123 C3202 0. 047u 0. 047u VB HT CT CT CT FB4 - 1N4 DTC4 123 FB3 FB3 - 1N8 FB2 - 1N8 FB2 - 1N8 FB1 VSS (0) WSS (0) out 1-1 out 1-2 out 1-2

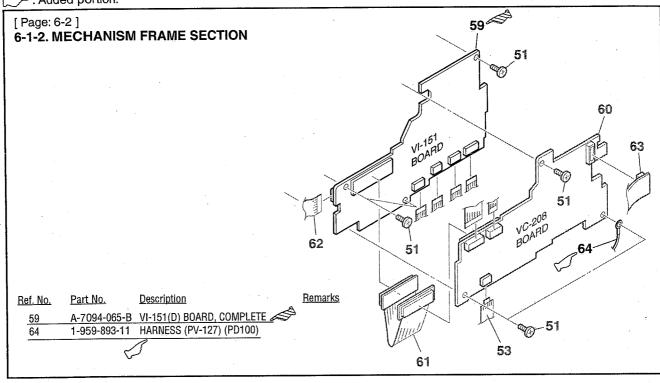
P9995\$

: Added portion. [Page: 6-1] **6-1-1. OVERALL SEC**1 [Page: 6-4] **6-1-4. CABINET (R) SE** Ref. No. Part No. <u>Desc</u> * 154 3-051-918-01 COV





: Added portion.



6-2. ELECTRICAL PARTS LIST

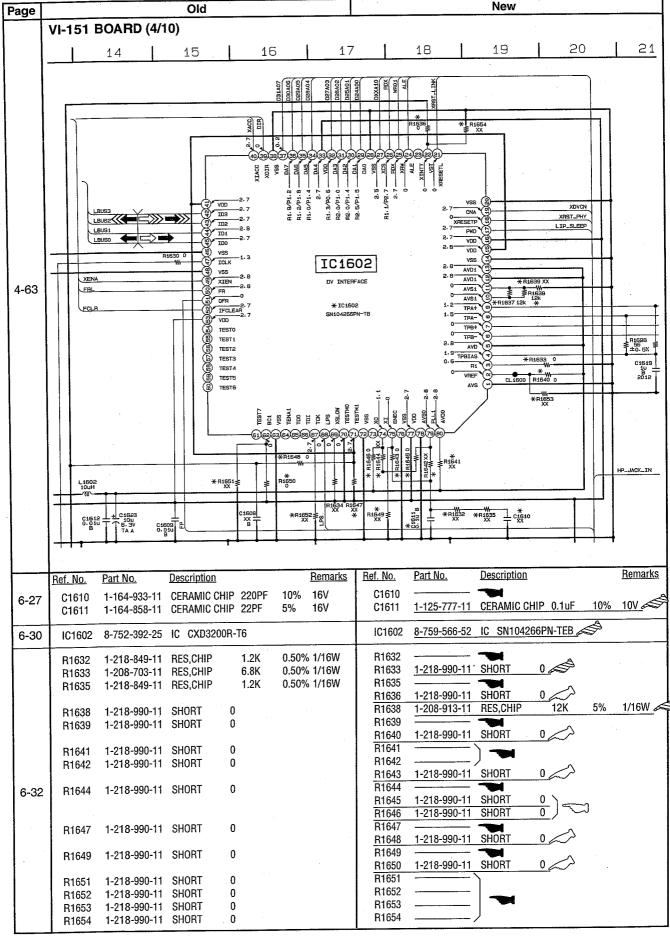
: Chenged portion. : Deleted portion.

| | : Chenged portion. | | | | | | Now | | | | | |
|-------------|----------------------|---------------------------------------|--------------------------------|------------|----------|----------------|--------------|--------|--------------|------------------|---------------|----------------|
| Page | | | Old | | | | | | | New | | |
| | Ref. No. | Part No. | Description | | | <u>Remarks</u> | Re | f. No. | Part No. | Description | | <u>Remarks</u> |
| | | A-7094-065-A | VI-151(D) BOA | RD, COMPLI | ETE (F | PD100) | | | A-7094-065-B | VI-151(D) BOARD. | COMPLETE | |
| 6-27 | | A-7094-121-A | VI-151(D) BOA | RD, COMPLI | ETE (I | PD100P) | | M | P | ***** | | |
| ŭ . | | | ******** | ****** | **** | | | VIII | | | (Ref.No.:10,0 | 000 Series) |
| , | | | | (Ref.No | .:10,0 | 00 Series) | | | | | : | |
| | C3200 | 1-107-819-11 | CERAMIC CHIP | 0.022uF | 10% | 16V | 7 | | | | | . ' |
| | CN3200 | 1-580-057-11 | PIN, CONNECT | OR 4P | | | | | 1-778-507-21 | PIN, CONNECTOR | 4P | |
| | CN3201 | | PIN, CONNECT | OR (1.5MM) | (SME |)) 3P | | CN3201 | 1-779-064-11 | PIN, CONNECTOR | 12P 🔊 | |
| 6-29 | D3200 | 8-719-421-27 | DIODE MA728 | 3-TX | | | k | ** | | .* | | |
| | D3201 | 8-719-420-14 | DIODE MA808 | 32-TX | | | $ \rangle$ | | | | | |
| | D3202 | 8-719-420-14 | DIODE MA808 | | | | | | | | | |
| | D3203 | 8-719-420-14 | DIODE MA808 DIODE 1SS38 | | | | 1 1 | | | | | |
| | D3204 | 8-719-056-48 | | | | | 4 | | | | | |
| | LF3200 | 1-411-957-11 | FILTER, COMM | ON MODE | | | | | | | | |
| | ⚠ PS3200 | 1-533-760-21 | FUSE (SMD) 1. | | | | | | | | | |
| | △ PS3201 | 1-533-760-21 | FUSE (SMD) 1. | | | | | | | | | |
| | △ PS3202 | 1-533-760-21 | FUSE (SMD) 1. FUSE (SMD) 1. | | | | | | | | | |
| | ⚠ PS3203 ⚠ PS3204 | 1-533-760-21 1-533-760-21 | FUSE (SMD) 1. | | | | | | | | | |
| | | | | | | | | | | | | |
| | | 1-533-760-21 | FUSE (SMD) 1. | | | | | | | | | |
| | <u> </u> | 1-533-760-21 | FUSE (SMD) 1. | 4A | | | | | | | | |
| | Q3200 | 8-729-024-48 | TRANSISTOR | | | | | | | | | |
| | △ Q3201 | 8-729-036-43 | TRANSISTOR | | | | | | | | | |
| 6-31 | ∆ Q3202 | 8-729-036-43 8-729-804-41 | TRANSISTOR TRANSISTOR | | | | | | | | | |
| 0-31 | Q3203 Q3204 | 8-729-804-41 8-729 - 037-74 | TRANSISTOR | | |) | | | | | | |
| | | | | | | J | | | | | | |
| | Q3205 | 8-729-024-48 | TRANSISTOR | 2SK1830-T | E85L | | | | | | | |
| | R3200 | 1-218-989-11 | | | 5% | 1/16W | | | | | | |
| | R3201 | 1-218-989-11 | RES,CHIP | | 5% | 1/16W | | | | | | |
| 6-34 | R3203 | 1-216-150-91 | RES,CHIP RES,CHIP | | 5% 5% | 1/8W 1/16W | | | | | | |
| 0-04 | R3205 R3206 | 1-218-953-11 1-218-961-11 | RES,CHIP | | 5% 5% | 1/16W | | | | | | |
| | R3208 | 1-218-973-11 | RES,CHIP | | 5% | 1/16W | | | | | | |
| | | | | | | | 1) | | | | | |
| 6-35 | R3303 | 1-218-953-11 | RES,CHIP | 1K | 5% | -1/16W | <u></u> | | | | | |

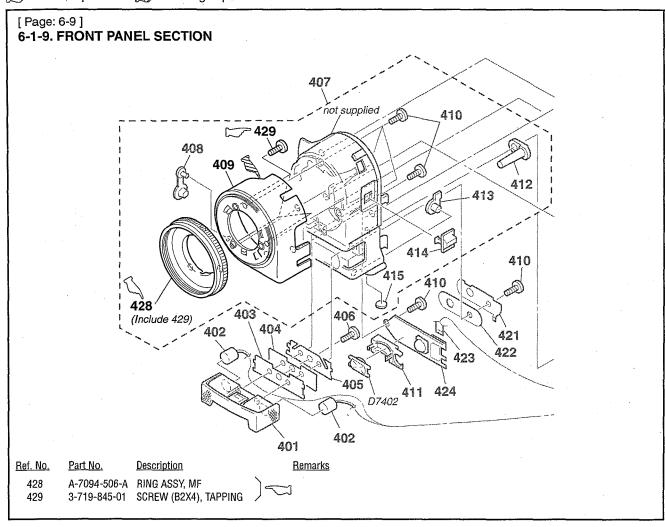
Added portion

| | New | | | | | | | | | |
|-----------------|--------------|------------------------|-----------|----------------|----------------|---|--------------------|---|----------|----------------|
| Ref. No. | Part No. | Description | | <u>Remarks</u> | Ref. No. | Part No. | <u>Description</u> | | | Remarks |
| | A-7074-018-A | PS-422 BOARD, COMPLETE | | | | | < TRANSISTO | R > | | |
| | | (Re | ef.No.:10 | ,000Series) | Q3500 | 8-729-024-48 | | | | |
| | | 0.10.10/300 | | | Q3501 | 8-729-036-43 | | | | |
| | | < CAPACITOR > | | | Q3502 Q3503 | 8-729-036-43 8-729-804-41 | | | | |
| C3500 | 1-164-227-11 | CERAMIC CHIP 0.022uF | 10% | 16V | Q3503 Q3504 | 8-729-402-42 | | | | |
| C3572 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% | 16V | 40004 | 0 720 402 42 | 11000001011 | ONOLIO | | |
| C3573 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% | 16V | Q3505 | 8-729-024-48 | TRANSISTOR | 2SK1830-T | E85L | |
| | | < CONNECTOR > | | | | | < RESISTOR > | • | | |
| CN3500 | 1-580-057-11 | PIN. CONNECTOR 4P | | | R3203 | 1-216-150-00 | RES, CHIP | 10 | 5% | 1/16W |
| | 1-580-056-21 | PIN, CONNECTOR 3P | | | R3500 | 1-216-857-11 | | 1M | 5% | 1/16W |
| | 1-779-064-11 | PIN, CONNECTOR 12P | | | R3501 | 1-216-857-11 | | 1M | 5% | 1/16W |
| CN3503 | 1-778-507-21 | PIN, CONNECTOR 4P | | | R3503 | 1-216-821-11 | | 1K | 5% | 1/16W |
| | | < DIODE > | | , | R3505 R3506 | 1-216-821-11 1-216-829-11 | | 1K 4.7K | 5% 5% | 1/16W 1/16W |
| D3500 | 8-719-421-27 | DIODE MA728 | | | R3508 | 1-216-841-11 | | 4.7 K | 5% | 1/16W |
| D3501 | 8-719-073-03 | DIODE MA8082 | | | 110000 | 7 210 011 11 | 1120,01111 | | 070 | 171011 |
| D3502 | 8-719-073-03 | DIODE MA8082 | | | Note: | | Note | | | • |
| D3503 | 8-719-073-03 | DIODE MA8082 | | | | omponents iden | | composants | | |
| D3504 | 8-719-027-76 | DIODE 1SS357-TPH3 | | | _ | ∆ or dotted line w critical for safety. ce only with part | pou | marque 🛆 r la sécurité. les remplace | | |
| | | < LINE FILTER > | | | specifi | | | e portant le nu | | |
| LF3500 | 1-411-957-11 | FILTER, COMMON MODE | | | | | | | | |
| | | < FUSE > | | | | | | | | |
| | 1-533-760-21 | FUSE (SMD) 1.4A | | | | | | | | |
| | 1-533-760-21 | FUSE (SMD) 1.4A | | | | | | ** | | |
| | 1-533-760-21 | FUSE (SMD) 1.4A | | | | | | | | |
| | 1-533-760-21 | FUSE (SMD) 1.4A | | | : | | | | | |
| A P53504 | 1-533-760-21 | FUSE (SMD) 1.4A | | 1 | | | | | | |
| △ PS3505 | 1-533-760-21 | FUSE (SMD) 1.4A | | | | | | | | |
| ⚠ PS3506 | 1-533-760-21 | | | | | | | | | |

: Added portion. : Chenged portion. : Deleted portion. Old VI-151 BOARD (4/10)



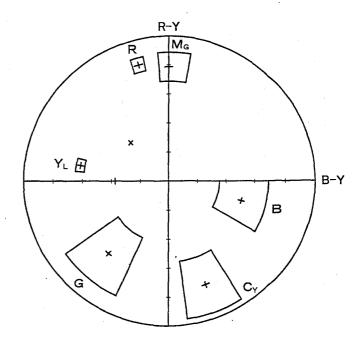
| Page | New |
|------|---|
| | 3. C Page Table |
| 5-52 | Address Initial value NTSC PAL AB Fixed data-1 AC Data IC1602 of VI-151 board 00 CXD3200R-T6 02 SN104266PN-TEB AE Fixed data-1 (Initialized data) |
| 5-66 | 3-5-2. BIST Check 1-4. IC1600(SFD) BIST(PB) Check 1) Select page: 0, address: 01, and set data: 01. 2) Select page: C, address: AC, set data: 21, and press the PAUSE button. 3) Select page: C, address: AD, and note down the data. When the data is "00", change it to "01" and press the PAUSE button. When the data is "02", change it to "03" and press the PAUSE button. 4) Select page: 3, address: 11, set data: 04, and press the PAUSE button. 12) Select page: C, address: AC, set data: 20, and press the PAUSE button. 13) Select page: C, address: AD, set the data noted down at step 3), and press the PAUSE button. 14) Select page: 0, address: 01, and set data: 00. |
| 5-68 | 2-3. IC1600(SFD) BIST(REC) Check 1) Select page: 0, address: 01, and set data: 01. 2) Select page: C, address: AC, set data: 21, and press the PAUSE button. 3) Select page: C, address: AD, and note down the data. When the data is "00", change it to "01" and press the PAUSE button. When the data is "02", change it to "03" and press the PAUSE button. 4) Select page: 3, address: 11, set data: 04, and press the PAUSE button. 11) Select page: C, address: AC, set data: 20, and press the PAUSE button. 12) Select page: C, address: AD, set the data noted down at step 3), and press the PAUSE button. 13) Select page: 0, address: 01, and set data: 00. |



DSR-PD100/PD100P

(FOR CAMERA COLOR REPRODUCTION ADJUSTMENT)

Take a copy of CAMERA COLOR REPRODUCTION FRAME and Parts referencesheets with a clear sheet for use.



DSR-PD100/PD100P

DSR-PD100/PD100P

SONY

TECHNICAL MEMO

No.

NPV-995022

Category SL

Date

August 24, 1999

Sony Corporation, PV Co.

Subject

Audio System Check Procedure When XLR Adapter Is Used (Addition to Service Manual)

MODEL

DSR-PD100, DSR-PD100P, DSR-PD100A, DSR-PD100AP

[Contents]

AUDIO SYSTEM CHECK (WHEN SIGNAL IS INPUT USING XLR ADAPTER) is issued as attached as the service information.

AUDIO SYSTEM CHECK (WHEN SIGNAL IS INPUT USING XLR ADAPTOR)

[Connection of Audio System Measuring Devices]
Connect the audio system measuring devices as shown in Fig. 5-3-11, and perform the checks.

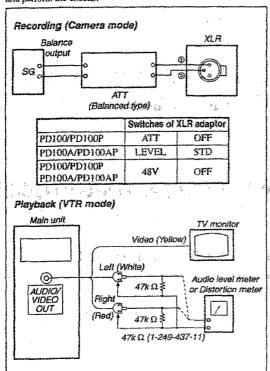


Fig. 5-3-11

1. Overall Level Characteristics Check

| Mode | Camera recording and playback | | | |
|----------------------|--|--|--|--|
| Signal | 400 Hz, -60 dBs signal: XLR jack ② and ③ (balance input) | | | |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack | | | |
| Measuring Instrument | Audio level meter | | | |
| Specified Value | -7.5 ± 5.0 dBs | | | |

- Checking Method:

 1) Input the 400 Hz, -60 dBs signal in the XLR jack.
- Record in the camera mode.
- Playback the recorded section.
- Check that the 400 Hz signal level is the specified value.

2. Overall Distortion Chack

| Mode | Camera recording and playback |
|----------------------|---|
| Signal | 400 Hz, -60 dBs signal: XLR jack ② and ③ (balance input) |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack |
| Measuring Instrument | Audio distortion meter |
| Specified Value | Below 0.5 % (200 Hz to 6 kHz BPF ON) |

Checking Method:

- Input the 400 Hz, -60 dBs signal in the XLR jack. 1)
- Record in the camera mode. 2)
- Playback the recorded section. 3)
- 4) Check that the distortion is the specified value.

3. Overall Noise Level Check

| Mode | Camera recording and playback |
|----------------------|--|
| Signal | No signal: Insert a shorting plug in the XLR jack. |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack |
| Measuring Instrument | Audio level meter |
| Specified Value | Below -45 dBs (IHF-A filter ON, 20 kHz LPF ON) |

Checking Method:

- 1) Insert a shorting plug in the XLR jack. (Short pins-® and ③.)
- Record in the camera mode.
- Playback the recorded section.
- Check that the noise level is the specified value.

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DSR-PD100/PD100P

SONY

SERVICE MANUAL

US Model Canadian Model DSR-PD1000 AEP Model DSR-PD100P

SUPPLEMENT-2

File this supplement-2 with the Service Manual. (99-016)

Contents: Addition of Adjusting Procedure
3-7. AUDIO SYSTEM CHECK (WHEN SIGNAL IS INPUT USING XLR ADAPTOR)

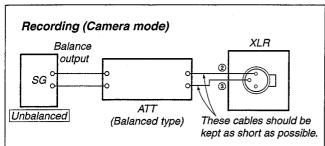
 The SERVICE MANUAL of the model DSR-PD100/PD100P that has already been published earlier, did not have the AUDIO SYSTEM CHECK for when the XLR adaptor is connected. This supplement describes the AUDIO SYSTEM CHECK procedure when signal is input using XLR adaptor.

[]: Page No. shown in [] indicates the page to refer on the original Service manual DSR-PD100/PD100P.

3-7. AUDIO SYSTEM CHECK (WHEN SIGNAL IS INPUT USING XLR ADAPTOR) [page 5-70]

[Connection of Audio System Measuring Devices]

Connect the audio system measuring devices as shown in Fig. 5-3-12, and perform the checks.



| MODEL | Switches of | XLR adaptor |
|--|-------------|-------------|
| DSR-PD100/PD100P | ATT | OFF |
| DSR-PD100A/PD100AP | LEVEL | STD |
| DSR-PD100/PD100P DSR-PD100A/PD100AP | 48V | OFF |

Playback (VTR mode)

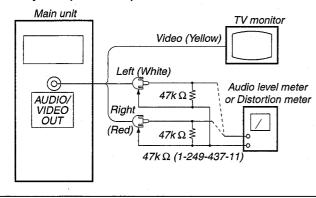


Fig. 5-3-12

1. Overall Level Characteristics Check

| Mode | Camera recording and playback |
|----------------------|--|
| Signal | 400 Hz, -60 dBs signal: XLR jack 2 and 3 (balance input) |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack |
| Measuring Instrument | Audio level meter |
| Specified Value | $-7.5 \pm 5.0 \text{ dBs}$ |

Checking Method:

- 1) Input the 400 Hz, -60 dBs signal in the XLR jack.
- 2) Record in the camera mode.
- 3) Playback the recorded section.
- 4) Check that the 400 Hz signal level is the specified value.

2. Overall Distortion Check

| Mode | Camera recording and playback |
|----------------------|--|
| Signal | 400 Hz, -60 dBs signal: XLR jack ② and ③ (balance input) |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack |
| Measuring Instrument | Audio distortion meter |
| Specified Value | Below 0.5 % (200 Hz to 6 kHz BPF ON) |

Checking Method:

- 1) Input the 400 Hz, -60 dBs signal in the XLR jack.
- 2) Record in the camera mode.
- 3) Playback the recorded section.
- 4) Check that the distortion is the specified value.

3. Overall Noise Level Check

| Mode | Camera recording and playback |
|----------------------|---|
| Signal | No signal: Short pins-2 and 3. |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack |
| Measuring Instrument | Audio level meter |
| Specified Value | Below -45 dBs (IHF-A filter ON, 20 kHz LPF ON) |

Checking Method:

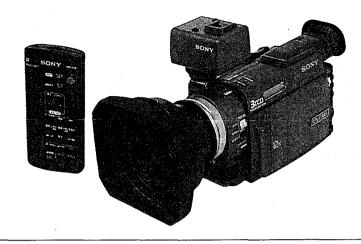
- 1) Short pins-2 and 3.
- 2) Record in the camera mode.
- 3) Playback the recorded section.
- 4) Check that the noise level is the specified value.

DSR-PD100A/PD100AP

SERVICE MANUAL







US Model Canadian Model DSR-PD100A AEP Model DSR-PD100AP

C MECHANISM

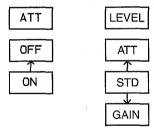
Differences Manual

- DSR-PD100A/PD100AP is based on DSR-PD100/PD100P.
- This Service Manual daceribed only the difference from DSR-PD100/PD100P (US/Canadian/AEP Model) Service Manual (9-974-114-11) and Supplement-1 (9-974-114-81).

 DSR-PD100A (NTSC)
 DSR-PD100AP (PAL)

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- Main Difference
 - XLR adaptor S102 is changed.
 (ATT SWITCH → LEVEL SWITCH)



• Table for Differences of Completed Board

| DSR-PD100/PD10 | | DSR-PD100A/PD100AP |
|----------------|--------------|--------------------|
| MA-333 Board | A-7073-734-A | A-7074-072-A |
| XL-2 Board | A-7073-738-A | A-7074-073-A |

DVCAM DIGITAL CAMCORDER





6. REPAIR PARTS LIST 6-1. EXPLODED VIEWS

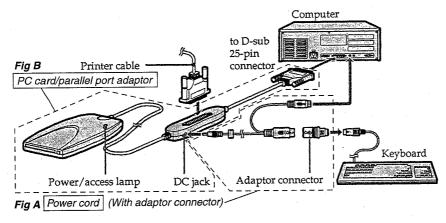
| Page | | DSR-PD100/PD100P | | | DSR- | PD100A/PD100AP |
|------|-------------------|------------------|----------------------------|-------------------|--------------|--|
| | Ref. No. | Part No. | Description | Ref. No. | Part No. | Description |
| 6-9 | 420 | A-7073-734-A | MA-333 (D) BOARD, COMPLETE | 420 | A-7074-072-A | MA-333 (A) BOARD, COMPLETE |
| 6-11 | 503 511 517 | A-7073-738-A | , , | 503 511 517 | A-7074-073-A | BOX (UPPER) ASSY, TERMINAL XL-2 (A) MOUNT XLR BLOCK ASSY |

6-1. ELECTRICAL PARTS LIST

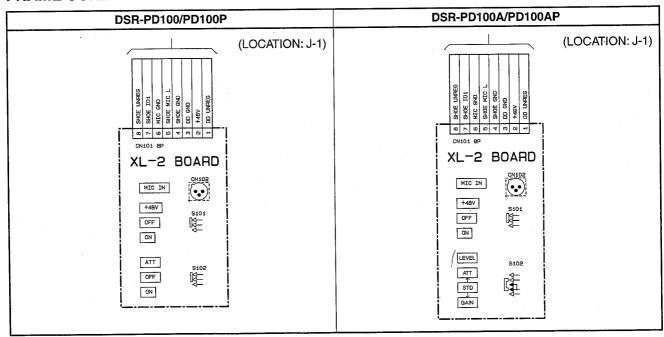
| Page | DSR-PD100/PD100P | | | | | DSR- | PD100A/PD10 | 0AP | | | | |
|------|-------------------------|--|--|------------|----------|----------------|-------------------------|--|----------------------------------|----------|------------|----------------|
| | Ref. No. | Part No. | Description | | | | Ref. No. | Part No. | Description | | | |
| | | | MA-333 (D) BOA | | | | | | MA-333 (A) BOAI | | | |
| | | | < CAPACITOR > | | | | | | < CAPACITOR > | | | |
| 6.10 | C7301 C7305 | 1 - 162-970-11 | CERAMIC (CHIP) CERAMIC (CHIP) CERAMIC (CHIP) | 0.01uF | 10% | 25V | C7301 C7305 C7310 | | CERAMIC (CHIP) CERAMIC (CHIP) | | 10% 10% | 25V 16V |
| 6-18 | C7310 | 1-102-900-11 | GERAIVIIC (CRIF) | 0.0047 ui | F 1076 | 50V | C7358 | | CERAMIC (CHIP) | 0.1uF | 10% | 50V |
| | | | <diode></diode> | | | | | | < DIODE > | | | |
| | D7305 | 8-719-420-41 | DIODE MA8082- | TX | | | D7305 | 8-719-037-03 | DIODE MA8082(| K8).S0 | | |
| | | | < FERRITE BEAD | > | | | | | < FERRITE BEAD | > · | | |
| | | | | | | | FB732 | 1-500-444-11 | FERRITE OuH | | | |
| | | | < RESISTOR > | | | | | | < RESISTOR > | | ΄, | |
| 6-19 | R7302 R7311 R7312 | 1-500-444-11 1-216-839-11 1-216-836-11 | FERRITE OuH METAL CHIP METAL CHIP | 33K 18K | 5% 5% | 1/16W 1/16W | R7302 R7311 R7312 | DELETE 1-216-864-11 1-216-841-11 | | 0 47K | 5% 5% | 1/16W 1/16W |
| | R7354 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W | R7354 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/16W |
| | | | XL-2 BOARD, CO | | | | | | XL-2 (A) BOARD, | | | |
| 6-35 | | • | < DIODE > | | | | | | < DIODE > | | | |
| | D107 D108 | | DIODE MA8082- DIODE MA8082- | | | | D107 D108 | 8-719-073-03 8-719-073-03 | DIODE MA8082 DIODE MA8082 | | | |

DSR-PD100A/PD100AP

| Page | | DSI | R-PD100/PD100P | | DSR | -PD100A/PD100AP | |
|-------|----------|--------------|--|--------------|------------------------------|----------------------------|------------------------|
| | Ref. No. | Part No. | <u>Description</u> | Ref. No. | Part No. | <u>Description</u> | |
| | | | < RESISTOR > | | | < RESISTOR > | |
| | R123 | 1-216-296-91 | SHORT 0 | R123 R124 | 1-218-833-11 1-211-987-11 | | .5% 1/16W .5% 1/16W |
| | | | < SWITCH > | | • | < SWITCH > | |
| | S102 | 1-570-711-11 | SWITCH, SLIDE (ATT ON/OFF) | S102 · | 1-762-217-21 | SWITCH, SLIDE (LEVEL (ATT, | STD, GAIN)) |
| | | | ACCESSORIES ************************************ | | | ACCESSORIES ********* | · |
| 6-36E | | A-7094-002-A | PC CARD ADAPTOR (MSAC-PC1) (WITH CASE) | | A-7094-593-A | PC CARD ADAPTOR (MSAC-PC | C2) (WITH CASE) |
| | Fig A | 1-959-249-11 | CORD, CONNECTION (FOR KEYBOARD, WITH ADAPTOR) | Fig A | Delete | | |
| | Fig B | 1-959-250-11 | PC CARD/PARALLEL PORT ADAPTOR (MSAC-PC1) | Fig B | Delete | | · |
| | | 3-865-078-11 | MANUAL, INSTRUCTION (ENGLISH) (PD100/PD100P) | | 3-867-703-11 | MANUAL, INSTRUCTION (ENG | SLISH) 0A/PD100AP) |
| | - | 3-865-078-21 | MANUAL, INSTRUCTION (FRENCH) (PD100/PD100P) | | 3-867-703-21 | MANUAL, INSTRUCTION (FRE | |
| | | 3-865-078-31 | MANUAL, INSTRUCTION (GERMAN) (PD100) | | 3-867-703-31 | MANUAL, INSTRUCTION (GEF | RMAN) (PD100AP) |
| | | 3-865-078-41 | MANUAL, INSTRUCTION (ITALIAN) (PD100P) | | 3-867-703-41 | MANUAL, INSTRUCTION (ITAL | LIAN) (PD100AP) |



[Page 4-5]
FRAME SCHEMATIC DIAGRAM-2



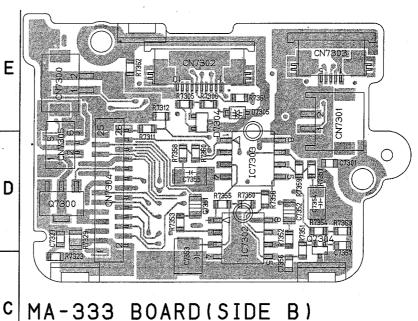
[Page 4-97] **PRINTED WIRING BOARD**

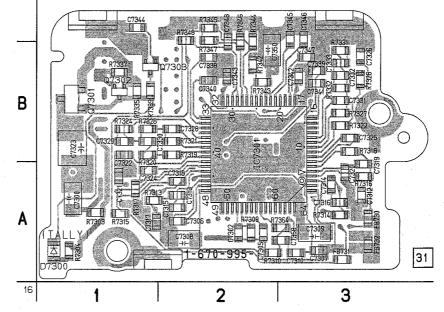
MA-333 (STEREO MIC AMP) PRINTED WIRING BOARD — Ref. No. MA-333 Board; 10,000 Series —

MA-333 BOARD(SIDE

MA-333 BOARD

| C7300 C7301 C7302 C7305 C7306 C7307 | A-1 D-3 A-2 A-2 A-2 A-3 | C7355 C7356 | D-2 D-3 C-2 D-3 D-2 C-3 | R7314 R7315 R7316 R7317 R7318 R7319 | A-3 A-1 A-3 A-1 B-3 B-2 |
|--|--|--|--|--|--|
| C7308 C7309 C7310 C7312 C7313 C7314 | A-2 A-3 A-2 A-3 A-3 | C7357 C7358 CN7300 CN7301 CN7302 | E-3 E-2 | R7320 R7321 R7322 R7323 R7324 R7326 | B-1 B-2 B-3 C-1 B-1 B-3 |
| C7315 C7316 C7317 C7318 C7319 C7320 | A-2 A-3 A-1 A-2 A-3 A-3 | CN7303 CN7304 CN7305 D7300 D7304 | D-1 | R7327 R7328 R7329 R7331 R7332 R7335 | B-3 B-1 D-1 B-3 B-3 B-1 |
| C7321 C7322 C7323 C7324 C7325 | A-3 A-1 B-1 B-1 A-1 B-3 | D7304 D7305 FB730 FB731 FB732 | E-2 E-2 A-3 A-3 A-3 | R7337 R7339 R7342 R7343 R7344 | B-1 B-1 B-2 B-2 C-2 |
| C7326 C7327 C7328 C7329 C7330 | B-3 D-1 B-2 B-1 B-1 | IC7301 IC7302 IC7303 | B-2 D-2 D-2 | R7345 R7346 R7347 R7348 R7350 | C-2 C-2 B-2 C-2 D-2 |
| C7331 C7332 C7333 C7338 C7339 | B-3 B-3 B-3 B-2 B-3 | Q7300 Q7301 Q7302 Q7303 Q7304 | D-1 B-1 B-1 B-1 D-3 | R7351 R7352 R7353 R7354 R7355 | D-3 D-3 D-2 D-3 D-2 |
| C7340 C7341 C7342 C7343 C7344 C7345 | B-2 B-3 B-3 B-2 C-1 C-3 | R7303 R7304 R7305 R7306 R7309 | A-1 A-1 E-2 E-2 A-2 | R7356 R7357 R7358 R7359 R7360 R7361 | D-3 D-3 D-2 D-3 D-2 E-2 |
| C7346 C7347 C7348 C7350 | C-3 B-3 C-2 B-2 | R7310 R7311 R7312 R7313 | A-2 A-2 E-2 E-2 A-1 | R7362 R7363 R7364 | E-2 E-1 D-3 A-3 |

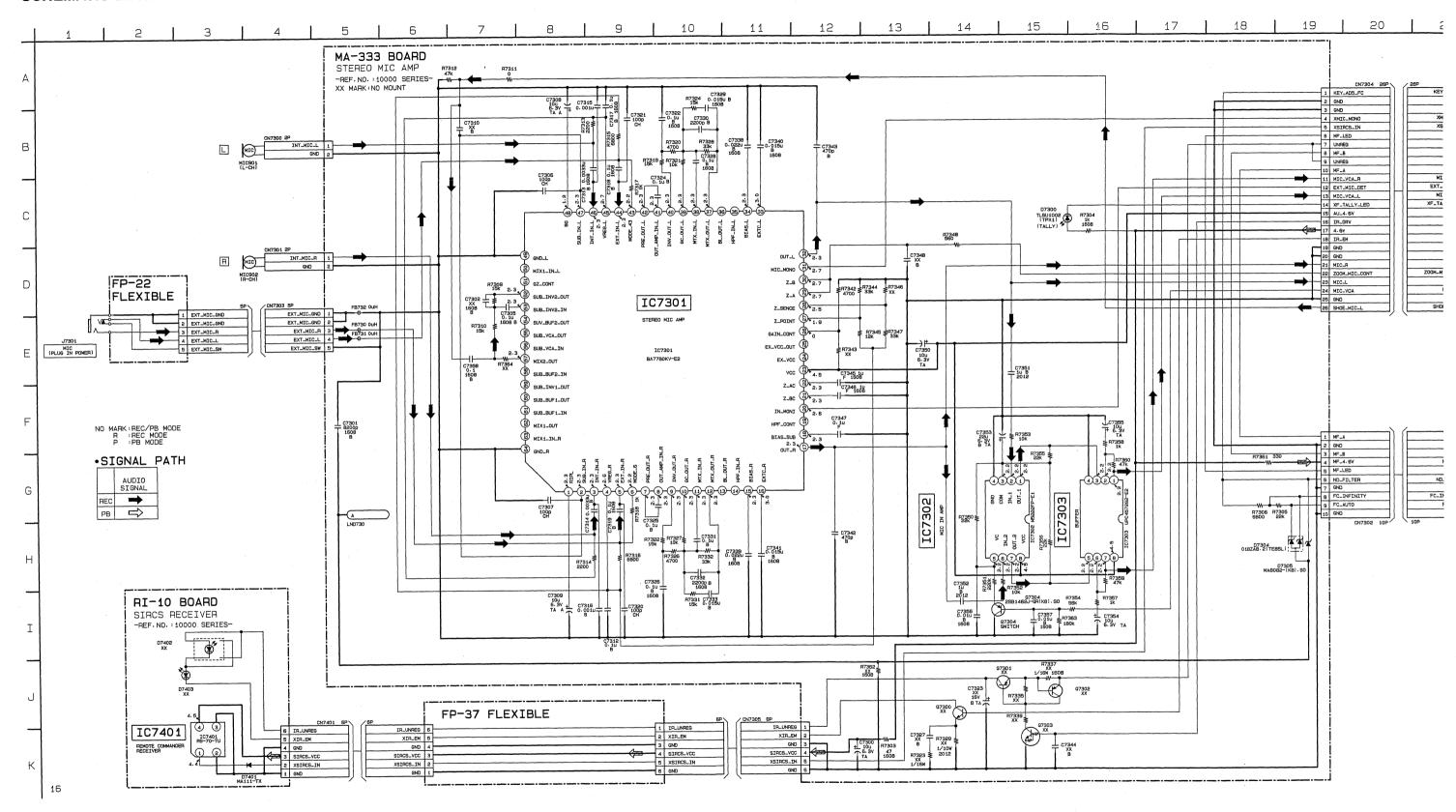


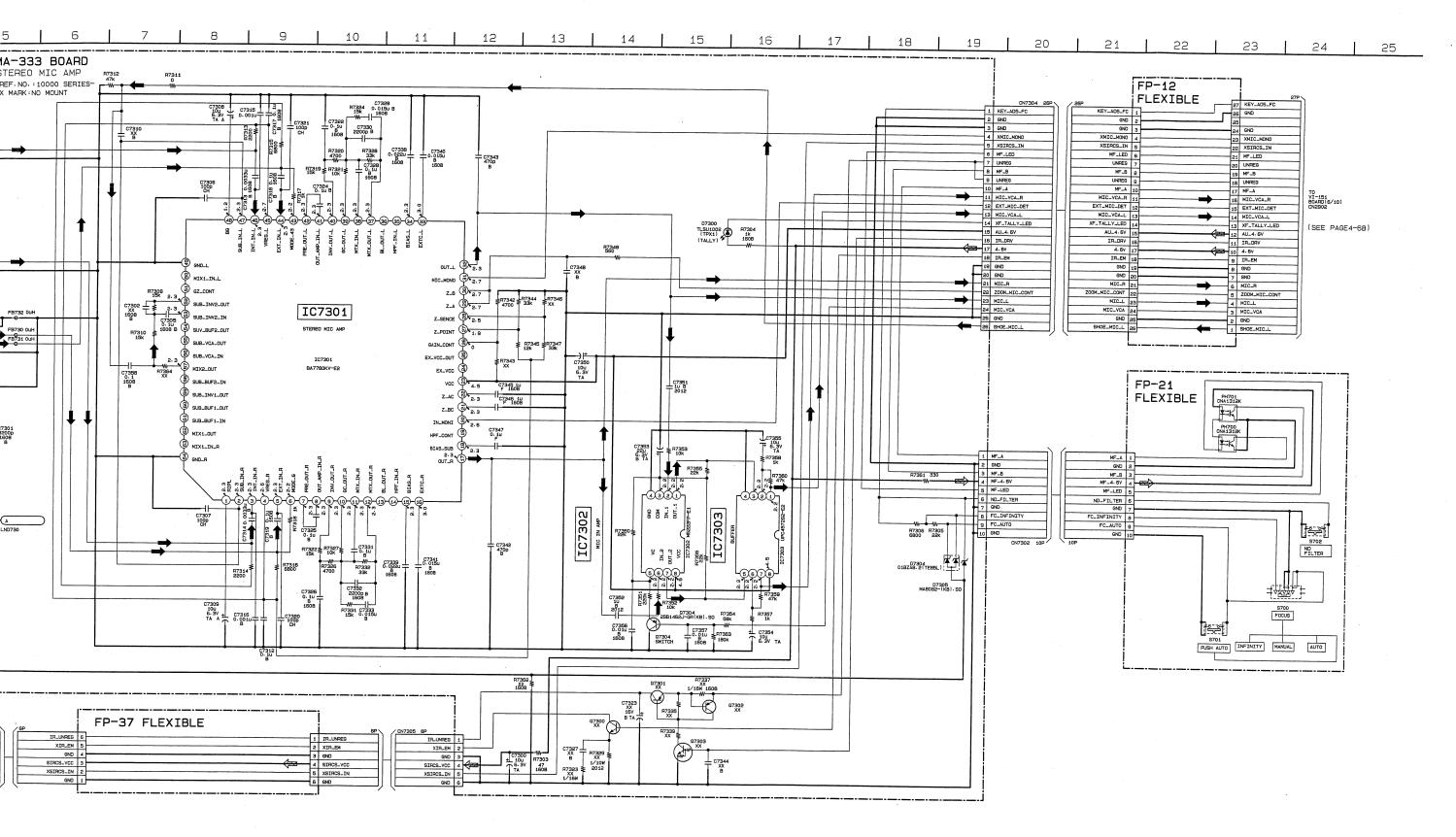


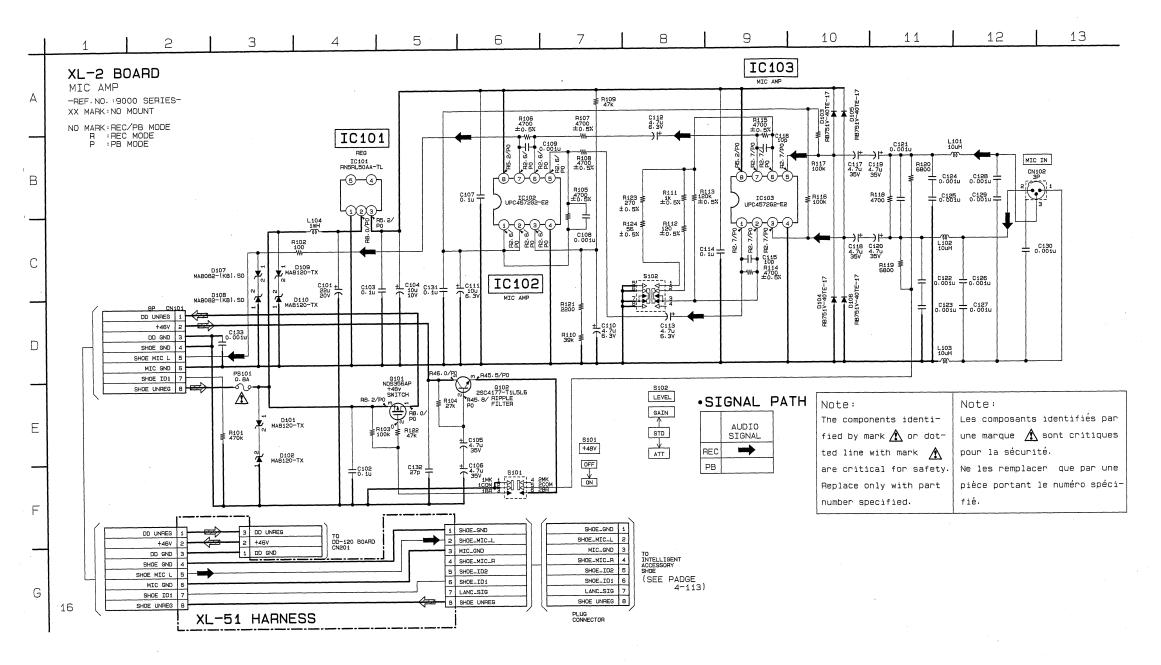
For printed wiring boards

There are few cases that the part printed on this diagram isn't mounted in this model.

[]: Page No. shown in [] indicates the page to refer on the original Service Manual DSR-PD10/PD100P.







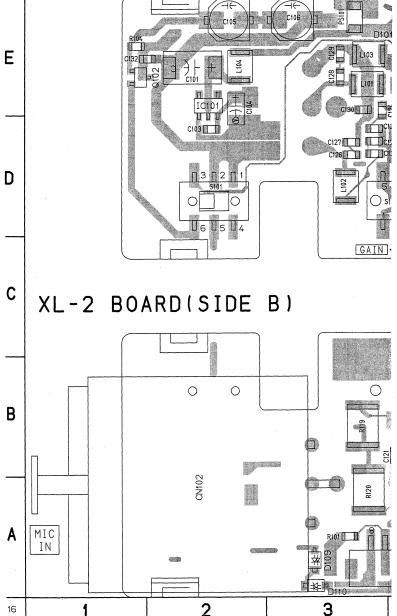
DSR-PD100A/PD100AP

[Page 4-131]
PRINTED WIRING BOARD

XL-2 (MIC AMP) PRINTED WIRING BOARD

- Ref. No. XL-2 Board; 9,000 Series -

XL-2 BOARD(SIDE A)



For printed wiring boards

9-974-179-11

There are few cases that the part printed on this diagram isn't mounted in this model.

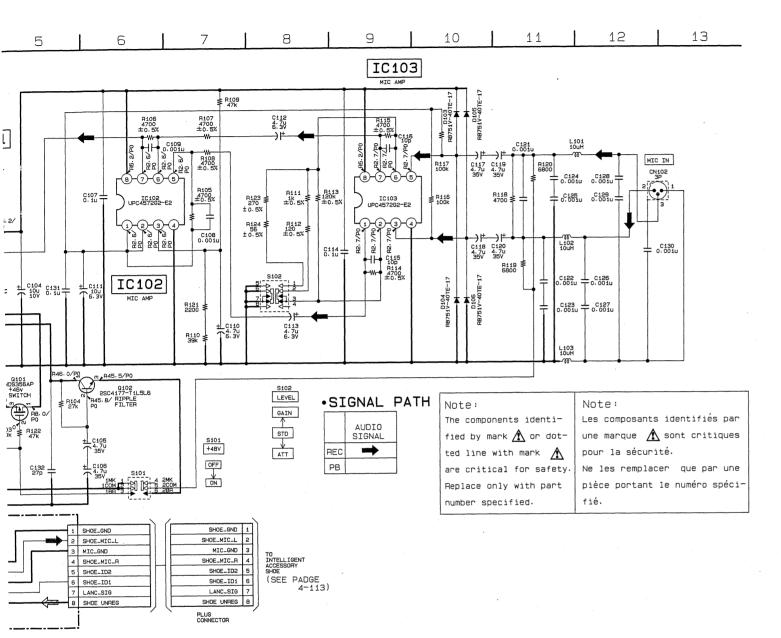
| C101 C102 C103 C104 C105 C106 C107 C108 C109 C110 C111 C112 C113 | E-2 E-4 D-2 E-2 E-3 A-5 A-5 A-5 B-5 B-4 D-4 | C11! C12: C12: C12: C12: C12: C12: C12: C12: |
|--|---|--|
| | | |
| | | C132 |
| C115 C116 | B-4 A-4 | C13(|
| C117 | E-4 | CN1 |
| C118 | D-4 | CN1 |
| | | |

XL-2 BOARD

Sony Corporation

MIC AMP

XL-2

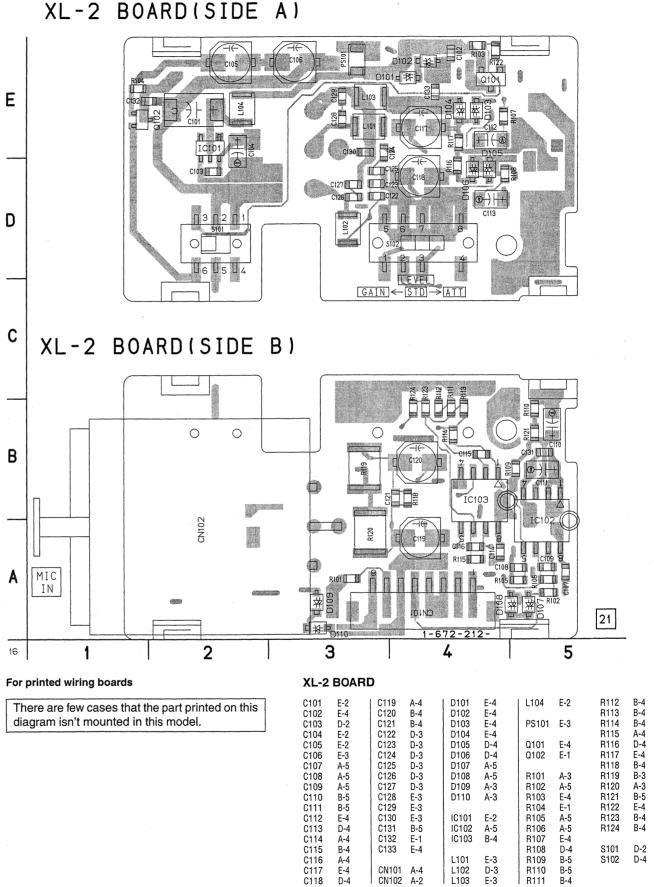


DSR-PD100A/PD100AP

[Page 4-131] PRINTED WIRING BOARD

XL-2 (MIC AMP) PRINTED WIRING BOARD

- Ref. No. XL-2 Board; 9,000 Series -



Sony Corporation Personal VIDEO Products Company

— 10 —

99G1611-1 Printed in Japan ©1999.7 Published by Safety & Service Engineering Dept.

—9—

V24133 # 1037/16

SONY

TECHNICAL MEMO

No.

NPV-995022

Category SL

Date

August 24, 1999

Sony Corporation, PV Co.

Subject

Audio System Check Procedure When XLR Adapter Is Used (Addition to Service Manual)

MODEL

DSR-PD100, DSR-PD100P, DSR-PD100A, DSR-PD100AP

[Contents]

AUDIO SYSTEM CHECK (WHEN SIGNAL IS INPUT USING XLR ADAPTER) is issued as attached as the service information.

AUDIO SYSTEM CHECK (WHEN SIGNAL IS INPUT USING XLR ADAPTOR)

[Connection of Audio System Measuring Devices]

Connect the audio system measuring devices as shown in Fig. 5-3-11, and perform the checks.

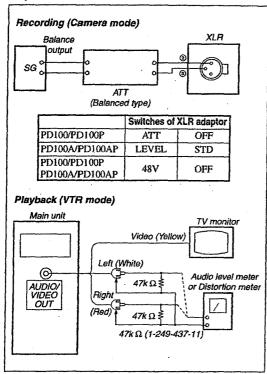


Fig. 5-3-11

1. Overall Level Characteristics Check

| Mode | Camera recording and playback |
|----------------------|--|
| Signal | 400 Hz, -60 dBs signal: XLR jack ② and ③ (balance input) |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack |
| Measuring Instrument | Audio level meter |
| Specified Value | $-7.5 \pm 5.0 dBs$ |

Checking Method:

- Input the 400 Hz, -60 dBs signal in the XLR jack.
- Record in the camera mode.
- Playback the recorded section.
- 4) Check that the 400 Hz signal level is the specified value.

2. Overall Distortion Check

| Mode | Camera recording and playback |
|----------------------|--|
| Signaf | 400 Hz, -60 dBs signal: XLR jack ② and ③ (balance input) |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack |
| Measuring Instrument | Audio distortion meter |
| Specified Value | Below 0.5 % (200 Hz to 6 kHz BPF ON) |

Checking Method:

- Input the 400 Hz, -60 dBs signal in the XLR jack.
- Record in the camera mode.
- Playback the recorded section.
- Check that the distortion is the specified value.

3. Overall Noise Level Check

| Mode | Camera recording and playback |
|----------------------|--|
| Signal | No signal: Insert a shorting plug in the XLR jack. |
| Measurement Point | Audio left or right terminal of AUDIO VIDEO jack |
| Measuring Instrument | Audio level meter |
| Specified Value | Below -45 dBs (IHF-A filter ON, 20 kHz LPF ON) |

Checking Method:

- Insert a shorting plug in the XLR jack, (Short pins-② and ③.)
 Record in the camera mode.
 Playback the recorded section.

- 4) Check that the noise level is the specified value.